

GENERAL NOTES

- TEMPORARY BENCHMARK -- BASED ON A CITY APPROVED BENCHMARK AS SHOWN ON THESE PLANS.
- ALL EXISTING ELEVATIONS SHALL BE FIELD VERIFIED BY CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL SURVEY MONUMENTS SHALL BE REPLACED IF DAMAGED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOT DESTROY EXISTING PERMANENT SURVEY MONUMENTS.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF MORGAN HILL STANDARD DETAILS FOR CONSTRUCTION WHICH ARE HEREBY MADE A PART OF THESE PLANS. DEVIATIONS FROM THE STANDARD DETAILS MUST BE APPROVED BY THE CITY ENGINEER.
- A NO FEE ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT UPON COMPLETION OF PRE-CONSTRUCTION MEETING AND PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS.
- NOT USED.
- CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK PHASE. AT THAT TIME AN "INSPECTION REQUEST FORM" SHALL BE COMPLETED TO ENSURE PROPER SCHEDULING OF AN INSPECTION WITH THE CITY ENGINEER'S REPRESENTATIVE.
- CONTRACTOR SHALL PRESERVE ALL SURROUNDING PROPERTY BY CONFINING OPERATIONS TO WITHIN THE "LIMITS OF WORK". CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS FOR ALL ADJOINING RESIDENTS, PLACES OF BUSINESS, AND PROPERTIES AND PROVIDING WRITTEN NOTICE AT LEAST 24 HOURS IN ADVANCE OF ANY INTERRUPTION IN ACCESS OR SERVICE TO THE ABOVE PROPERTY OWNERS AS WELL AS TO THE CITY ENGINEER'S REPRESENTATIVE.
- CONTRACTOR SHALL ONLY USE EQUIPMENT PROVIDED WITH A SPARK ARRESTOR DEVICE TO REDUCE A POTENTIAL FIRE HAZARD.
- NOT USED.
- OFF-SITE WATER & DUST CONTROL:
CONTRACTOR SHALL PROVIDE A WATER TRUCK/STREET SWEEPER ON-SITE AT ALL TIMES. CONTRACTOR WILL BE ALLOWED TO DRAW WATER FROM THE CITY OF MORGAN HILL WATER DISTRIBUTION SYSTEM ONLY AFTER OBTAINING A HYDRANT METER FROM THE PUBLIC WORKS DEPARTMENT AND AN INSPECTION OF THE WATER TRUCK FOR A PROPER BACKFLOW DEVICE OR "AIR-GAP" PING PIPE. CONTRACTOR SHALL KEEP DOWN DUST FROM CONSTRUCTION ACTIVITY TO THE MAXIMUM EXTENT POSSIBLE. CONTRACTOR SHALL CLEAN ALL EXISTING STREETS, CURBS, GUTTERS, AND SIDEWALKS AFFECTED BY THE PROJECT AT THE END OF EACH WORKING DAY.
- MATERIAL STORAGE:
NO MATERIAL SHALL BE STORED NEAR THE EDGE OF PAVEMENT, TRAVELED WAY, SIDEWALK, DRIVEWAY, OR SHOULDER LINE WHICH MAY CREATE A HAZARD FOR VEHICULAR AND PEDESTRIAN TRAFFIC. CONTRACTOR IS RESPONSIBLE FOR SECURING A STORAGE AREA NEAR THE PROJECT.
- TRAFFIC CONTROL:
CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL TO THE PUBLIC WORKS DEPARTMENT A MINIMUM OF 10 DAYS PRIOR TO ANY WORK WITHIN AN EXISTING PUBLIC STREET. THE PLAN SHALL BE SIGNED BY A LICENSED TRAFFIC ENGINEER WHEN IT INVOLVES AN ARTERIAL STREET. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF A CALTRANS "MANUAL OF WARNING SIGNS, LIGHTS, AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS", WHILE WORKING WITHIN THE PUBLIC RIGHT-OF-WAY. TWO TRAFFIC LANES (10' MIN.) SHALL BE OPEN TO VEHICULAR TRAFFIC DURING ALL HOURS, WEEKENDS, AND HOLIDAYS. ONE LANE ONE WAY TRAFFIC, MAY BE PERMITTED UNDER THE CONTROL OF NOT LESS THAN 2 (TWO) COMPETENT FLAGMEN DURING CONSTRUCTION OPERATIONS. STREET CLOSURES AND DETOURS SHALL ONLY TAKE PLACE UPON CITY ENGINEER APPROVAL AND POLICE DEPARTMENT COORDINATION.
- TRENCH EXCAVATION:
CONTRACTOR SHALL EXERCISE DILIGENCE IN REVIEWING THE SOILS REPORT AND OTHER AVAILABLE RESOURCES TO FAMILIARIZE HIMSELF / HERSELF WITH THE SOIL CONDITIONS TO BE ENCOUNTERED IN THE COURSE OF WORK IDENTIFIED IN THESE PLANS. CONTRACTOR SHALL NOT CAUSE DAMAGE TO ADJACENT TREES OR EXISTING STRUCTURES ABOVE OR BELOW GRADE DURING TRENCH EXCAVATION. ALL ROCKS, BOULDERS, AND LARGE STONES ENCOUNTERED SHALL BE REMOVED TO PROVIDE A CLEARANCE OF 6 INCHES AROUND THE PIPE. THE TRENCH BOTTOM SHALL BE REFILLED TO GRADE WITH SAND, PEA GRAVEL, OR OTHER APPROVED GRANULAR MATERIAL. CLEAN 1/4" OR 1/2" PEA GRAVEL SHALL BE USED IN AREAS OF MOIST CONDITION OR WHERE THE SOIL HAS A HISTORY OF SUBSURFACE WATER. IF THE BOTTOM OF THE TRENCH IS FOUND TO CONSIST OF WET OR UNSTABLE MATERIAL INCAPABLE OF PROPERLY SUPPORTING THE PIPE, THE MATERIAL SHALL BE REMOVED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE UNSTABLE LAYER FOR THE FULL WIDTH OF THE TRENCH AND REPLACED WITH APPROVED GRANULAR MATERIAL. TRENCH EXCAVATION MATERIAL DEPOSITED ADJACENT TO THE TRENCH SHALL BE PLACED AND LOCATED TO PREVENT SPILLAGE INTO THE OPEN TRENCH.
- TRENCH SAFETY:
IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY TRENCH SAFETY MEASURES FOR EXCAVATIONS. ALL TRENCH SAFETY MEASURES SHALL BE IN ACCORDANCE WITH THE LATEST CAL-OSHA GUIDELINES. CONTRACTOR SHALL PROVIDE EVIDENCE OF A CAL-OSHA TRENCHING PERMIT AT THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL PROVIDE SITE SPECIFIC SAFETY PLAN FOR CITY REVIEW AND APPROVAL.
- EXCAVATIONS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED, COMPACTED, AND TEMPORARILY PAVED WITH COLD MIX "CUT BACK" TYPE A.C. TO ALLOW FOR VEHICULAR AND PEDESTRIAN TRAFFIC PRIOR TO 4:00 P.M. THE USE OF TRENCH PLATES IS ALLOWED, PROVIDED THE CONTRACTOR RECESSES THE PLATES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ON A DAILY BASIS, INCLUDING WEEKENDS, THE AMOUNT OF MATERIAL NECESSARY TO MAINTAIN THE TRENCH SURFACE FLUSH WITH THE EXISTING STREET OR SIDEWALK. IN ADDITION, THE CONTRACTOR SHALL RESPOND TO AND CORRECT SHIFTING TRENCH PLATES REGARDLESS OF THE TIME OF DAY. IF CONTRACTOR FAILS TO CORRECT SINKING BACKFILL MATERIAL OR SHIFTING TRENCH PLATES IN A TIMELY MANNER, CITY SHALL RESERVE THE RIGHT TO CORRECT THE PROBLEM AND BACK CHARGE THE CONTRACTOR.
- JOINING EXISTING PAVEMENT:
EXISTING PAVEMENT WHICH IS TO BE JOINED BY NEW PAVEMENT SHALL BE SAW CUT VERTICAL TO PROVIDE STRAIGHT, TRUE, AND NEAT JOINTS. OVERLAPPING OF EXISTING PAVEMENT WITHOUT SAW CUTTING OR GRINDING SHALL NOT BE PERMITTED. THE VERTICAL EDGES SHALL BE TACKED PRIOR TO PAVING. TERMINALS OF ALL SURFACING INDICATED ON THE PLANS SHALL JOIN ANY EXISTING SURFACE IN A SMOOTH BUTT JOINT. CONFORM PAVING BY METHOD OF ABRASIVE GRINDING WILL BE ALLOWED UPON APPROVAL OF THE CITY ENGINEER.
- SANITARY SEWERS:
ALL MANHOLES, SEWER MAINS, AND LATERALS MUST PASS A LEAKAGE TEST AS DESCRIBED IN THE CITY OF MORGAN HILL STANDARD DETAILS FOR CONSTRUCTION. AFTER ALL BACKFILL, TESTING, AND PAVEMENT RESTORATION HAS BEEN COMPLETED, THE CONTRACTOR SHALL FLUSH AND CLEAN ALL SEWER LINES 24 INCHES OR LESS IN DIAMETER BY THE "WAYNE BALL METHOD". AFTER THE LEAKAGE TEST, BUT PRIOR TO PAVING, A TELEVISION INSPECTION SHALL BE PERFORMED AT ALL LOCATIONS OF NEWLY INSTALLED SEWER MAINS AT CONTRACTOR'S EXPENSE. THE UNDERGROUND CONTRACTOR MUST KEEP AN ACCURATE RECORD OF MANHOLES AND THE DISTANCE BETWEEN THEM AND EACH WYE BRANCH LATERAL, AND THEIR DIRECTION.
- BEFORE ANY SEWERS ARE CONSTRUCTED, THE CONTRACTOR SHALL VERIFY THE ELEVATION AND LOCATION OF EXISTING SEWER LATERALS BY FILMING THE EXISTING LINE. EXISTING SEWER LATERALS FROM THE NORTH AND SOUTH SHALL BE CONNECTED TO THE NEW LINE.
- THE END OF EACH NEW LATERAL SHALL BE MARKED AS SHOWN IN DETAIL S-2. THE CONCRETE CONTRACTOR SHALL STAMP AN "S" ON THE FACE OF CURB DIRECTLY ABOVE THE LATERAL.

WATER LINES:

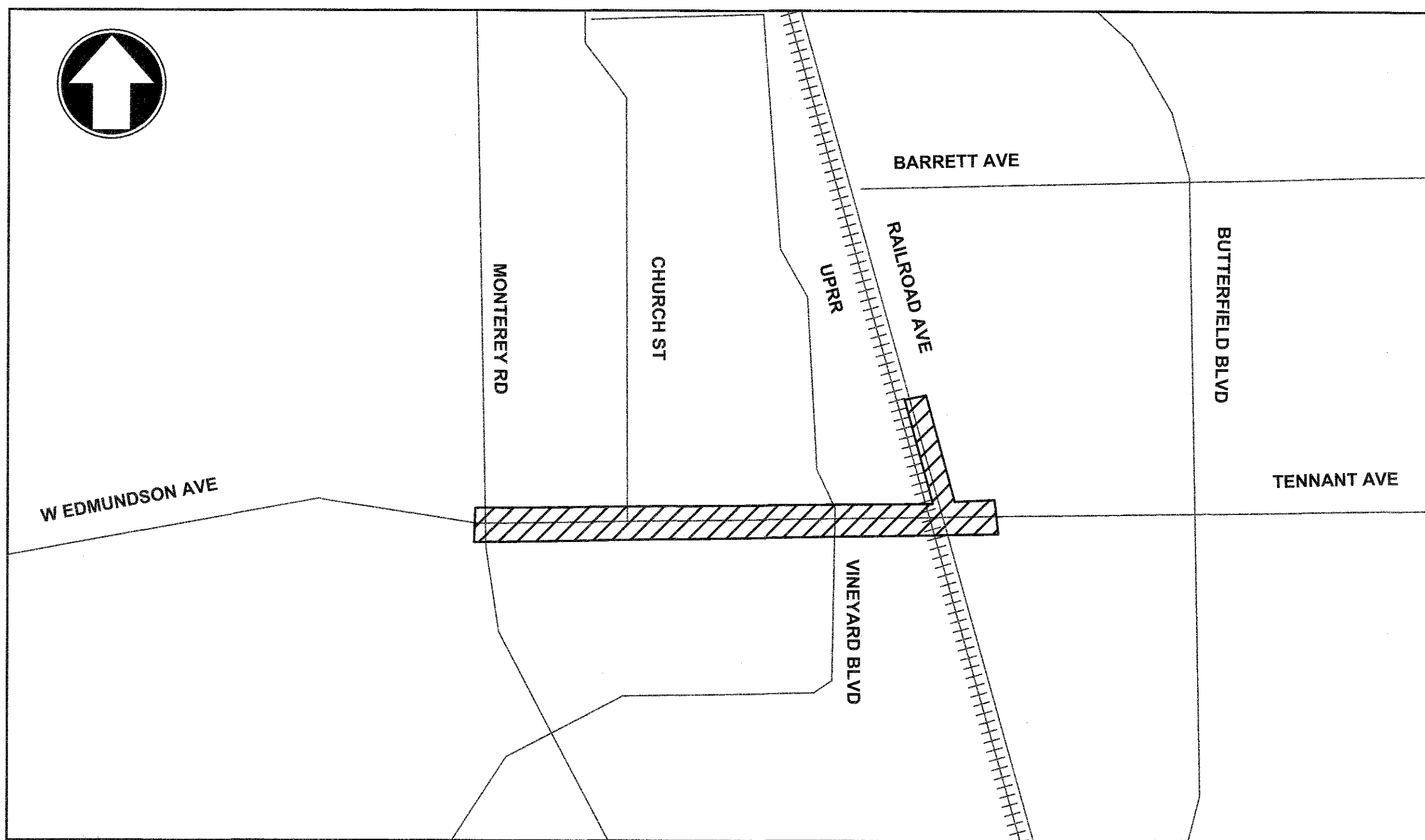
- CONTRACTOR SHALL NOT TURN OFF OR ON ANY VALVES BELONGING TO THE CITY'S WATER SYSTEM. ONLY DEPARTMENT OF PUBLIC WORKS PERSONNEL SHALL OPEN THE NECESSARY VALVES TO CONNECT NEW LINES. FAILURE TO FOLLOW THIS REQUIREMENT SHALL BE CONSIDERED AN "UNLAWFUL CONNECTION" AND MAY RESULT IN ISSUING OF A CITATION AND FINES AS SPECIFIED IN SECTION 13.04 OF THE MORGAN HILL MUNICIPAL CODE.
- CONNECTIONS REQUIRING SHUT DOWN OF THE SYSTEM SHALL BE DONE BETWEEN THE HOURS OF 12:00 MIDNIGHT AND 6:00 A.M., AND ONLY UPON COORDINATION WITH THE DEPARTMENT OF PUBLIC WORKS.
- ALL WATER LINES SHALL BE TESTED AFTER COMPLETION OF THE TRENCH BACKFILL AND COMPACTION OF THE FINAL BASE MATERIAL, BUT PRIOR TO THE PLACEMENT OF THE FINAL ROADWAY SURFACE.
- THE CONCRETE CONTRACTOR SHALL STAMP A LETTER "W" ON THE FACE OF CURB DIRECTLY ABOVE THE WATER SERVICE.
- FIRE HYDRANT: WET BARREL TYPE, CAST IRON BODY, TWO 2 1/2" OUTLETS AND ONE 4 1/2" OUTLET, CLOW MODEL F-960 WITH CLOW #40 BREAKOFF CHECK VALVE ASSEMBLY OR EQUAL.
- BACKFILL & COMPACTION:
27. BACKFILL MATERIAL SHALL BE HAND PLACED AND COMPACTED UP TO AT LEAST 6" ABOVE THE PIPE. WHEN USING NATIVE SOILS AS TRENCH BACKFILL, THE MINIMUM SAND COVER SHALL BE 12".
- JETTING AND/OR FLOODING OF TRENCH BACKFILL MATERIAL WILL BE PERMITTED ONLY IF APPROVED BY THE SOILS ENGINEER AND CITY ENGINEER.
- ANY EXCESS EXCAVATION MATERIAL MAY BE DEPOSITED ON-SITE IN AREAS AND AT DEPTHS DESIGNATED BY THE OWNER AND WITH APPROVAL OF THE CITY ENGINEER.
- THE MINIMUM RELATIVE COMPACTION FOR TRENCH BACKFILL, SUBGRADE AND BASE MATERIAL SHALL BE 95% THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED OTHERWISE IN THE SOILS REPORT AND APPROVED BY THE CITY ENGINEER.
- IF TRENCH BACKFILL MATERIAL IS 100% AS, THE CITY ENGINEER SHALL CONDUCT COMPACTION TESTS OF THE LIFTS SPECIFIED.
- ANY AGGREGATE BASE THAT BECOMES CONTAMINATED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED BASE.
- EROSION CONTROL:
AN EROSION AND SEDIMENT CONTROL PLAN SHALL BE REQUIRED PRIOR TO AND ANY PHYSICAL DEVELOPMENT OF A PROPERTY. EROSION CONTROL SHALL BE PLANNED BETWEEN OCTOBER 15TH AND MAY 1ST, AND SEDIMENT CONTROL SHALL BE PLANNED YEAR ROUND FOR THE LIFE OF THE PROJECT. SAID PLANS SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) FOR STORM WATER BEST MANAGEMENT PRACTICES (BMPs). CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING THE REQUIRED CONTROL MEASURES. CASQA BMP INFORMATION CAN BE VIEWED AND DOWNLOADED AT <http://casqabooks.com/Construction.asp>.
- CURB INLET STENCILING: ALL CURB INLETS SHALL HAVE THERMOPLASTIC STENCILING: "NO DUMPING, FLOWS TO CREEK/RIVER".
- NOT USED.

THE STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION, OF THE CITY OF MORGAN HILL SHALL GOVERN UNLESS OTHERWISE SPECIFIED HEREIN.

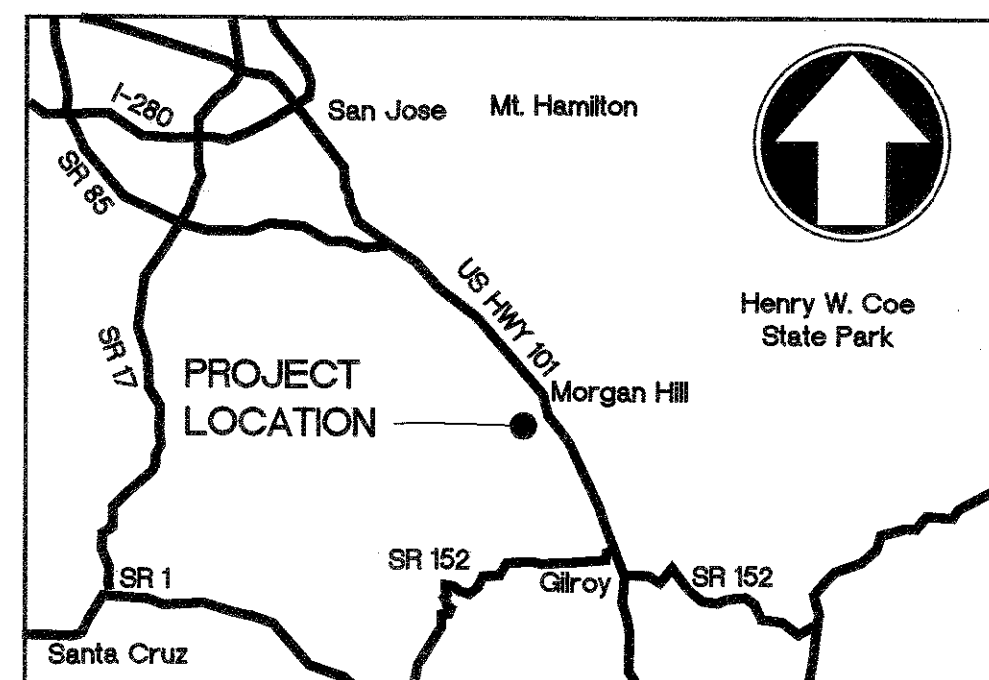
NOTE:

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold the Owner and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this Project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

IMPROVEMENT PLANS FOR TENNANT AVENUE SEWER MAIN PROJECT



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

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LEGEND

- (E) CITY BENCHMARK
- (E) SURVEY CONTROL POINT
- (E) CITY MONUMENT
- (E) GEOTECHNICAL BORING
- ABANDON (E) SEWER
- REMOVE (E) UTILITY
- (E) AT&T
- (E) ELEC
- (E) GAS
- (E) OVERHEAD
- (E) CABLECOM
- (E) FIBER OPTIC
- (E) SPRINT
- (E) LEVEL 3
- (E) TELECOMMUNICATIONS
- (E) WATER
- (E) UTILITY > 18" DIA
- (E) WATER VALVE
- REMOVE SANITARY SEWER MANHOLE
- REMOVE SANITARY SEWER CLEANOUT
- (E) SS LATERAL AND CLEANOUT
(SCHEMATIC REPRESENTATION - (E) CONNECTION MAY BE TEE OR WYE)
- (N) SS LATERAL AND CLEANOUT/REPLACE SS LATERAL AND PROVIDE CLEANOUT
(SCHEMATIC REPRESENTATION - (N) CONNECTION MAY BE TEE OR WYE)
- (N) SS LATERAL AND CLEANOUT PER CCTV LOGS (NOT FOUND IN FIELD) AND MANHOLE INSPECTIONS. CONTRACTOR TO VERIFY LOCATION. REPLACE LATERAL AND PROVIDE CLEANOUT.
(SCHEMATIC REPRESENTATION ONLY - (N) CONNECTION MAY BE TEE OR WYE)
- (E) SSMH - PROFILE
- (N) SSMH/REMOVE AND REPLACE SSMH - PROFILE

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- CURB AND GUTTER
- SIDEWALK
- STANDARD HOODED INLET
- FIRE HYDRANTS
- ELECTROLIER
- WATER METER
- DOMESTIC WATER SERVICE
- SANITARY SEWER
- STORM SEWER
- SANITARY MANHOLE
(SEE NOTE 28 ON SHEET G-2)
- STORM MANHOLE
- DRIVEWAY
- HANDICAP RAMP
- REMOVE TREE

ABBREVIATIONS

- AB AGGREGATE BASE
- AC ASPHALT CONCRETE
- ACCP SPUN CONCRETE PIPE
- AVE ASPHALT CONCRETE PIPE
- BFP BACK FLOW PREVENTER
- BOW BLOW OFF WALK
- CB CATCH BASIN
- CB CATCH BASIN
- CIP CAST IRON PIPE
- CONC CONCRETE
- CONC CORRUGATED METAL PIPE
- CONC CONCRETE
- DCDA DOUBLE CHECK DETECTOR ASSEMBLY
- DI DROP INLET/DITCH INLET
- DIP DUCTILE IRON PIPE
- DIP DRIVEWAY
- ELEC ELECTRICAL
- EP EDGE OF PAVEMENT
- ER END OF RETURN
- EX EXIST
- FF FINISH FLOOR
- FG FINISH GRADE
- FL FLOW LINE
- FO FIBER OPTIC
- FOC FACE OF CURB
- GB GRADE BREAK
- HP HIGH PRESSURE
- INV INVERT
- JP JOINT POLE
- LP LINEAR FEET
- LP LIP OF GUTTER
- LP LOW POINT
- MAX MINIMUM
- NG NATURAL GROUND
- PL PROPERTY LINE
- PSE PUBLIC SERVICE EASEMENT
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- R/W RIGHT OF WAY
- SDMH STORM DRAIN MANHOLE
- SLB SLAB
- SS SANITARY SEWER
- SSMH SANITARY SEWER MANHOLE
- STD STANDARD
- TBA TO BE ABANDONED
- TC TOP OF CURB
- TBR TO BE REMOVED
- TYP TYPICAL
- UG UNDERGROUND GAS LINE
- UPRR UNDERGROUND RAILROAD
- VCP UNDERGROUND TELEPHONE LINE
- WV VITRIFIED CLAY PIPE
- WV WATER
- WV WATER VALVE



TITLE, INDEX, ABBREVIATIONS, LEGEND, GENERAL NOTES
TENNANT AVENUE
SEWER MAIN PROJECT

DESIGN	DATE	DATE	DATE	DATE
DESIGNED	5/20/19	5/20/19	5/20/19	5/20/19
CHECKED	5/20/19	5/20/19	5/20/19	5/20/19
APPROVED	5/20/19	5/20/19	5/20/19	5/20/19
DATE	5/20/19	5/20/19	5/20/19	5/20/19
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DATE	5/20/19	5/20/19	5/20/19	5/20/19
DATE	5/20/19	5/20/19	5/20/19	5/20/19

City of Morgan Hill
Public Works Department
17575 Peak Avenue Morgan Hill, CA 95037 (408)776-4480, Fax (408)776-7236

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FILE NUMBER: 302717
PRINT DATE: 6/5/2019
SHEET NUMBER: G-1
1 OF 19

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PROJECT NOTES:

1. ALL UTILITIES SHOWN ON THESE PLANS WERE SCALED FROM THE UTILITY MAPS RECEIVED FROM THE UTILITY COMPANIES. THEY ARE NOT NECESSARILY COMPLETE AND ARE BASED ON THE INFORMATION AND PARTIAL TOPOGRAPHIC SURVEY DATA AVAILABLE TO THE DESIGN ENGINEER AT THE TIME THESE PLANS WERE PRODUCED. THE ACTUAL LOCATIONS OF THE UTILITIES SHOWN ON THESE PLANS AND ALL UTILITIES AND CONDITIONS SHOWN MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 A MINIMUM OF TWO (2) DAYS PRIOR TO SCHEDULED START OF CONSTRUCTION AND HAVE ALL UTILITY LOCATIONS MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO PROVIDE CITY WITH USA CONFIRMATION NUMBER FOR EACH LOCATION.
3. THE CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES TO REMAIN AND SHALL PROTECT SAID UTILITIES DURING CONSTRUCTION.
4. FOR OPEN CUT SEWER INSTALLATION OR REPLACEMENT, PROVIDE SHOP DRAWINGS WITH POTHOLED UTILITY INFORMATION DISPLAYED FOR REVIEW BY THE ENGINEER 72 HOURS MINIMUM PRIOR TO COMMENCEMENT OF ANY EXCAVATIONS.
5. PROVIDE TEMPORARY UTILITY SUPPORT USING CONTROLLED LOW STRENGTH MATERIAL TO PROTECT EXISTING UTILITIES AND APPURTENANCES IN PLACE DURING SEWER CONSTRUCTION. SEE SPECIFICATION SECTION 31 23 23.33.
6. NO STORAGE OF MATERIALS OR EQUIPMENT SHALL BE PERMITTED ON ROADWAYS AFTER WORK HOURS WITHOUT WRITTEN PERMISSION FROM CITY.
7. TRAFFIC CONTROL MEASURES SHALL BE IMPLEMENTED PER APPROVED TRAFFIC CONTROL PLANS AT ALL TIMES DURING THE CONSTRUCTION PERIOD IN COMPLIANCE WITH TECHNICAL SPECIFICATION SECTION 01 55 26, "TRAFFIC CONTROL".
8. APPROVED PROTECTIVE MEASURES SHALL BE USED FOR ALL EXCAVATIONS PER SECTION 31 23 00 "EARTHWORK", AND SECTION 31 41 00 "EXCAVATION SUPPORT, SHORING AND BRACING".
9. ALL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE RECORDED PRIOR TO DISTURBANCE. ALL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA. REPLACEMENT WORK SHALL BE COORDINATED AND DOCUMENTED WITH THE CITY ENGINEER.
10. RE-STRIPE ALL PAVED AREAS DAMAGED BY CONSTRUCTION WITH THERMOPLASTIC OR AS REQUIRED BY THE CITY IN CONFORMANCE WITH SECTION 32 17 23, "TRAFFIC STRIPES AND PAVEMENT MARKINGS." MARKING TYPES SHALL MATCH EXISTING TYPE.
11. COMPLETE CONSTRUCTION PER THE MOST RECENT EDITIONS OF THE CITY OF MORGAN HILL STANDARD SPECIFICATIONS, DESIGN STANDARDS, AND STANDARD DETAILS FOR CONSTRUCTION, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.
12. THE CONTRACTOR SHALL REMOVE ALL USA PAINT MARKINGS FROM PAVEMENT, SIDEWALKS, AND CONCRETE WITHIN THE PROJECT BOUNDARY FOLLOWING THE COMPLETION OF CONSTRUCTION. COVERING MARKINGS WITH PAINT WILL NOT BE ALLOWED.
13. DAMAGE TO STREET LIGHTING, TRAFFIC SIGNAL OR TRAFFIC LOOP FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH CALTRANS STANDARDS SECTIONS 86 AND 87. TRAFFIC SIGNAL LOOPS DAMAGED BY THE WORK SHALL BE REPLACED WITH TYPE D LOOPS PER CALTRANS STANDARD PLAN ES-5B.
14. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THEIR CONSTRUCTION SCHEDULE WITH PG&E. A PG&E INSPECTOR SHALL BE ONSITE DURING PRECONSTRUCTION SUBSURFACE UTILITY EXPLORATION POTHOLES AND DURING PIPELINE CONSTRUCTION WITHIN TEN (10) FEET OF GAS TRANSMISSION LINES.
15. NEW MANHOLES SHALL BE CONSTRUCTED AS NOTED ON THE PLANS AND PER CITY STANDARD DETAILS.
16. IN OPEN CUT SEWER REPLACEMENT SECTIONS, CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING SEWER PIPE.
17. NEW SEWER PIPE SHALL BE THE MATERIAL AS NOTED ON THE DRAWINGS.
18. REPLACEMENT AND REPAIR OF CITY OWNED FACILITIES NOT SPECIFICALLY DETAILED IN THE PLANS SHALL BE IN ACCORDANCE WITH APPLICABLE CITY STANDARD SPECIFICATIONS AND DETAILS.
19. CONTRACTOR SHALL FIELD LOCATE AND VERIFY ALL EXISTING LATERALS. SEWER LATERAL RECONNECTION SHALL BE IN ACCORDANCE WITH THE CITY STANDARD DETAILS. WHERE ADJACENT UTILITIES PREVENT LATERAL RECONNECTION TO NEW 27-INCH MAIN AT A 45 DEGREE ANGLE PER CITY STANDARD DETAIL S-2, LATERALS SHALL BE CONNECTED TO THE NEW MAIN PER DETAIL 2 ON SHEET D-2. LATERALS TO BE EXTENDED FROM THE ABANDONED 18-INCH MAIN TO THE NEW 27-INCH MAIN SHALL BE EXTENDED PER DETAIL 2 ON SHEET D-2. SEWER LATERAL CONNECTIONS SHALL BE PLACED PRIOR TO SURFACING OF STREETS AND OTHER SURFACE RESTORATIONS.
20. RIGHT OF WAY AND PROPERTY LINES WHERE SHOWN ARE BASED UPON RECORD DATA AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
21. EXISTING SANITARY SEWER MANHOLES WHICH ARE NOT TO BE REPLACED, REMOVED, OR ABANDONED SHALL BE PROTECTED IN PLACE.
22. CONTRACTOR TO REPLACE SOD, LANDSCAPING, AND IRRIGATION DAMAGED DUE TO HIS OPERATIONS TO CONDITION ACCEPTABLE TO ENGINEER AT NO ADDITIONAL COST TO THE CITY.
23. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY.
24. FOR SEWER BYPASS REQUIREMENTS, SEE SPECIFICATION SECTION 33 01 30.01.
25. NO DISRUPTION TO EXISTING SEWER SERVICES SHALL BE ALLOWED DURING CONNECTION TO THE EXISTING MAINS WITHOUT THE EXPRESSED APPROVAL OF THE CITY.
26. CONTRACTOR TO BROOM SWEEP CONSTRUCTION AREA EACH NIGHT PRIOR TO LEAVING THE JOB SITE.
27. CONTROL FOR MANHOLE STATIONING IS CENTER OF MANHOLE STRUCTURE, NOT CENTER OF MANHOLE FRAME AND COVER.
28. FOR MANHOLE LOCATIONS SEE SHEET G-4.

				WORK ACCEPTED:	INSPECTOR:	DRAWN: LV	DESIGN: AH	HOR: NTS
				AS-BUILT CORRECTIONS		CHECKED: DG RF, TKS	VERT: NTS	
				APPROVED: [Signature] DATE: 6/6/19		JOB NUMBER: 376483		
				CITY ENGINEER: SCOTT CREER RCE 58879 EXP. 06/30/19				
NO.	DESCRIPTION	DATE	BY					
Revisions								



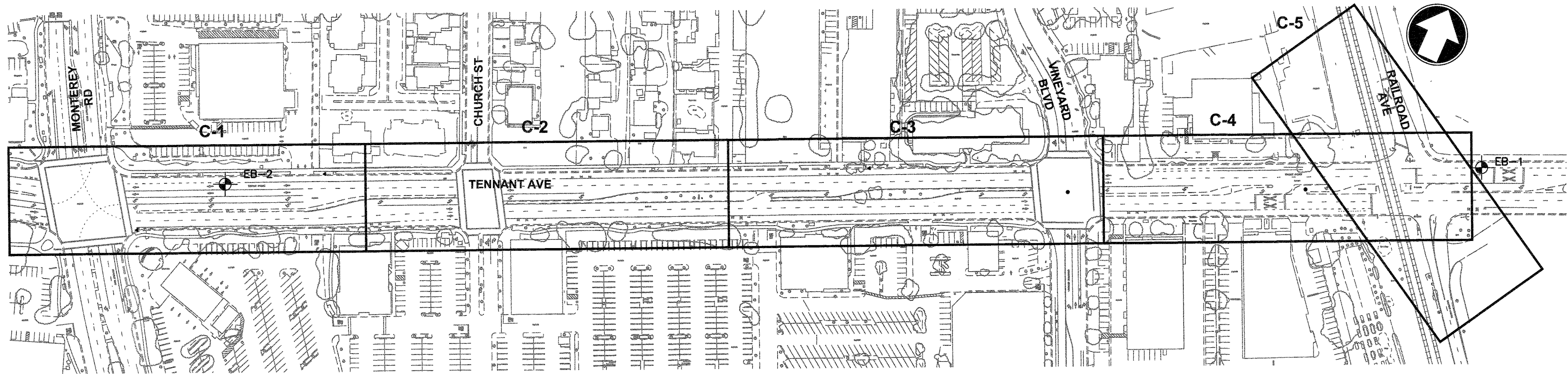
City of Morgan Hill
Public Works Department
100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282

M
MOTT
MACDONALD

2077 GATEWAY PLACE
SUITE 550
SAN JOSE, CA 95110
WWW.MOTTMAC.COM

PROJECT NOTES
TENNAANT AVENUE
SEWER MAIN PROJECT

FILE NUMBER:
302717
PRINT DATE:
6/5/2019
SHEET NUMBER:
G-2
2 OF 19



KEY MAP
N.T.S

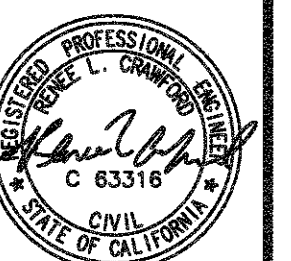
NOTES:

1. GEOTECHNICAL BORING LOCATIONS SHOWN ARE APPROXIMATE. DEPTH OF BORINGS IS 20FT. A GEOTECHNICAL REPORT IS AVAILABLE UPON REQUEST FOR REFERENCE ONLY.

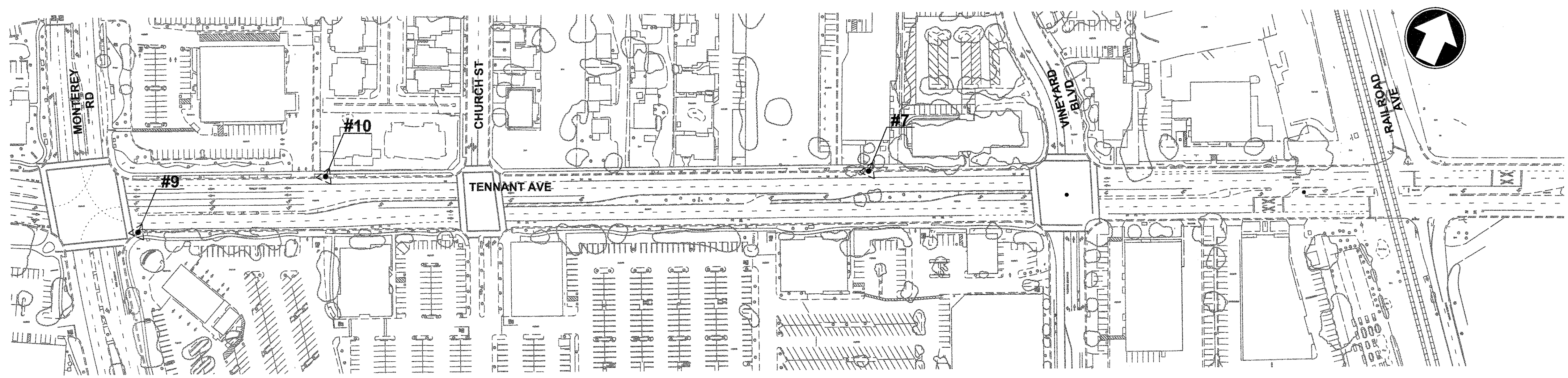
 APPROXIMATE GEOTECHNICAL BORING LOCATION.

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				AS-BUILT CORRECTIONS		CHECKED: DG RF	DATE: 6/6/19	VERT: NTS
NO.	DESCRIPTION	DATE	BY	BY:	DATE:	APPROVED: SCOTT CREER	JOB NUMBER: 376483	CITY OF MORGAN HILL
				Revisions		CITY OF MORGAN HILL		
						100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282		
						MOTT MACDONALD		
						2077 GATEWAY PLACE SUITE 550 SAN JOSE, CA 95110 WWW.MOTTMAC.COM		
						KEY MAP TENNANT AVENUE SEWER MAIN PROJECT		
						FILE NUMBER: 302717		
						PRINT DATE: 6/5/2019		
						SHEET NUMBER: G-3 3 OF 19		



BM 321



SURVEY NOTES
BASIS OF BEARINGS
CALIFORNIA COORDINATE SYSTEM,
NAD83 ZONE 3 IN FEET

VERTICAL CONTROL BENCHMARK TABLE

SCVWD BM #	ELEV (FT) NAVD88	CITY BENCHMARK DESCRIPTION
BM321	330.37	BRASS DISK, TOP OF SW, 3' EAST OF WESTERLY CONCRETE HEADWALL, NW CORNER OF EDMUNDSON AVE/WEST LITTLE LLAGAS CREEK, 300' W FROM MONTEREY RD ALONG N. SIDE OF EDMUNDSON AVE

SURVEY CONTROL POINT TABLE

PT#	NORTHING	EASTING	DESCRIPTION
7	1866231.964	6229592.981	MAGNETIC NAIL AND RIBBON
9	1865635.823	6228510.516	MAGNETIC NAIL AND RIBBON
10	1865850.496	6228760.909	MAGNETIC NAIL AND RIBBON

SURVEY CONTROL
N.T.S.

MANHOLE LOCATION TABLE

MH STATION	NORTHING	EASTING
200+60	1865680.71	6228474.31
203+43	1865799.40	6228731.18
203+99	1865822.79	6228781.53
206+58	1865931.95	6229016.67
211+12	1866121.96	6229429.19
216+19	1866333.81	6229889.51
220+09	1866496.93	6230243.95
221+11	1866532.73	6230339.60
222+50 (300+67)	1866623.04	6230444.89
222+88	1866649.59	6230417.78
223+47	1866665.62	6230362.43
300+00	1866587.58	6230502.09

NOTE: SEE SHEET G-2, NOTE 28.

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NO.	DESCRIPTION	DATE	BY

WORK ACCEPTED:	INSPECTOR:
AS-BUILT CORRECTIONS	
BY:	DATE:

DRAWN: AH	DESIGN: AH	HOR: NTS
CHECKED: RF		VERT: NTS
APPROVED: <i>[Signature]</i>	DATE: 6/4/19	JOB NUMBER: 376483
CITYENR RCE SCOTT CREER RCE 58879 EXP. 06/30/19		

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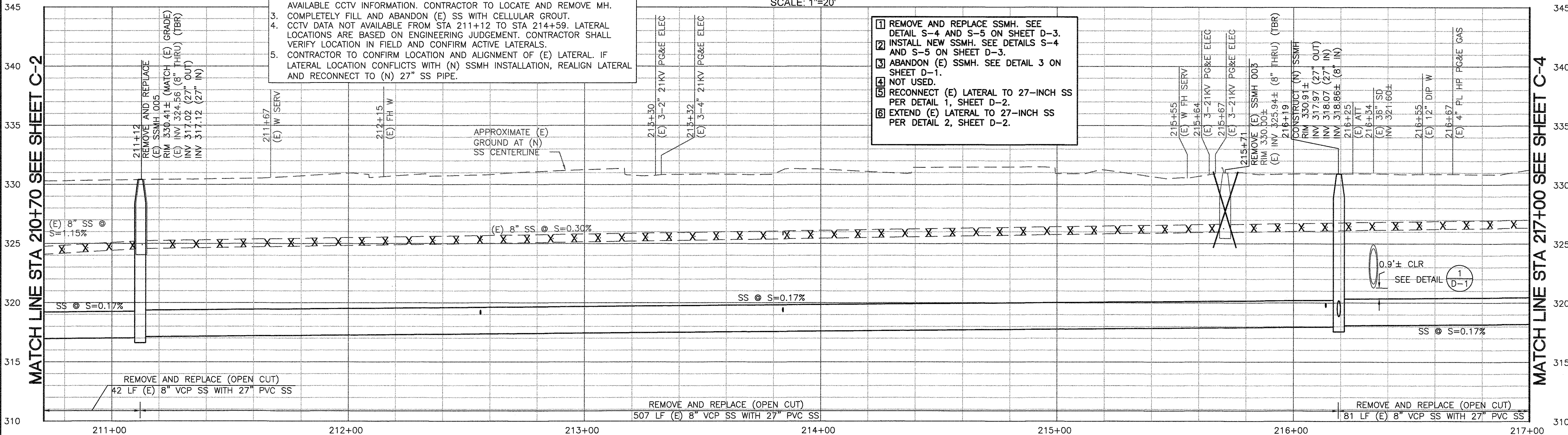
2077 GATEWAY PLACE
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SURVEY CONTROL
TENNANT AVENUE
SEWER MAIN PROJECT

FILE NUMBER: 30217
PRINT DATE: 6/5/2019
SHEET NUMBER: G-4 4 OF 19

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User: MLE5908
Title: TENNANT AVE
Scale: 1"=20'
Date: 6/4/19

Sheet: 1 of 3
Project: 100 Edes Ct. Morgan Hill, CA 95037
Client: City of Morgan Hill
Contract: 58879
Exp: 06/30/19



NO.	DESCRIPTION	DATE	BY

WORK ACCEPTED:	INSPECTOR:
AS-BUILT CORRECTIONS	
Revisions	

DRAWN: LV	DESIGN: AH	HOR: 1"=20'
CHECKED: RF		VERT: 1"=4'
APPROVED: SCOTT CREER RCE	DATE: 6/4/19	JOB NUMBER: 376483

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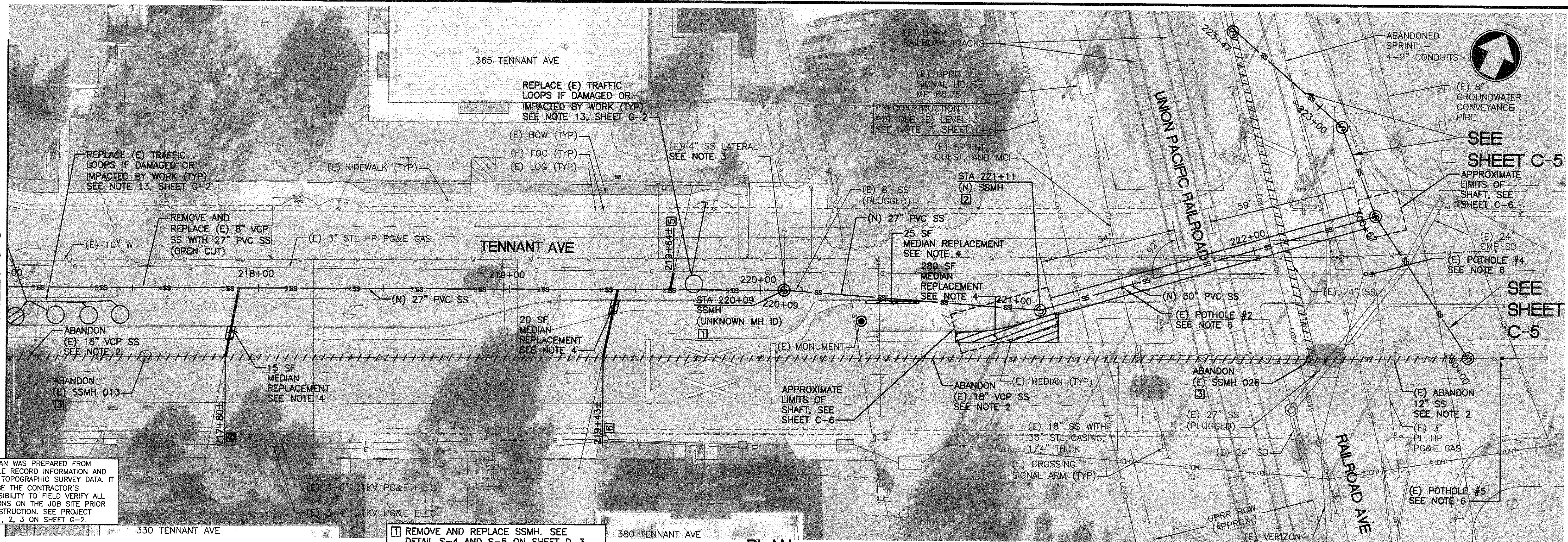
PLAN AND PROFILE
STA 210+70 TO 217+00
TENNANT AVENUE
SEWER MAIN PROJECT

FILE NUMBER: 302177
PRINT DATE: 6/5/2019
SHEET NUMBER: C-3
7 OF 19

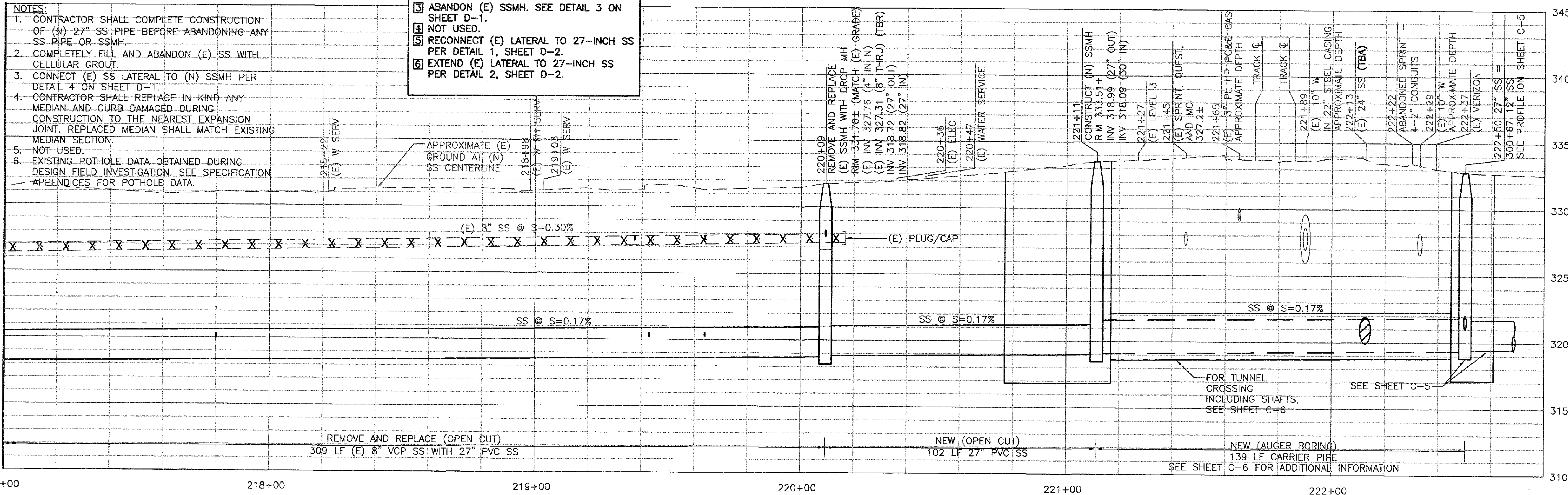
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User: VLR5908-1, Job: 10038848, X-REF: 10038848, X-REF: 10038848, X-REF: 10038848

MATCH LINE STA 217+00
SEE SHEET C-3

MATCH LINE STA 217+00 SEE SHEET C-3



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HORIZ
1"=4' VERT

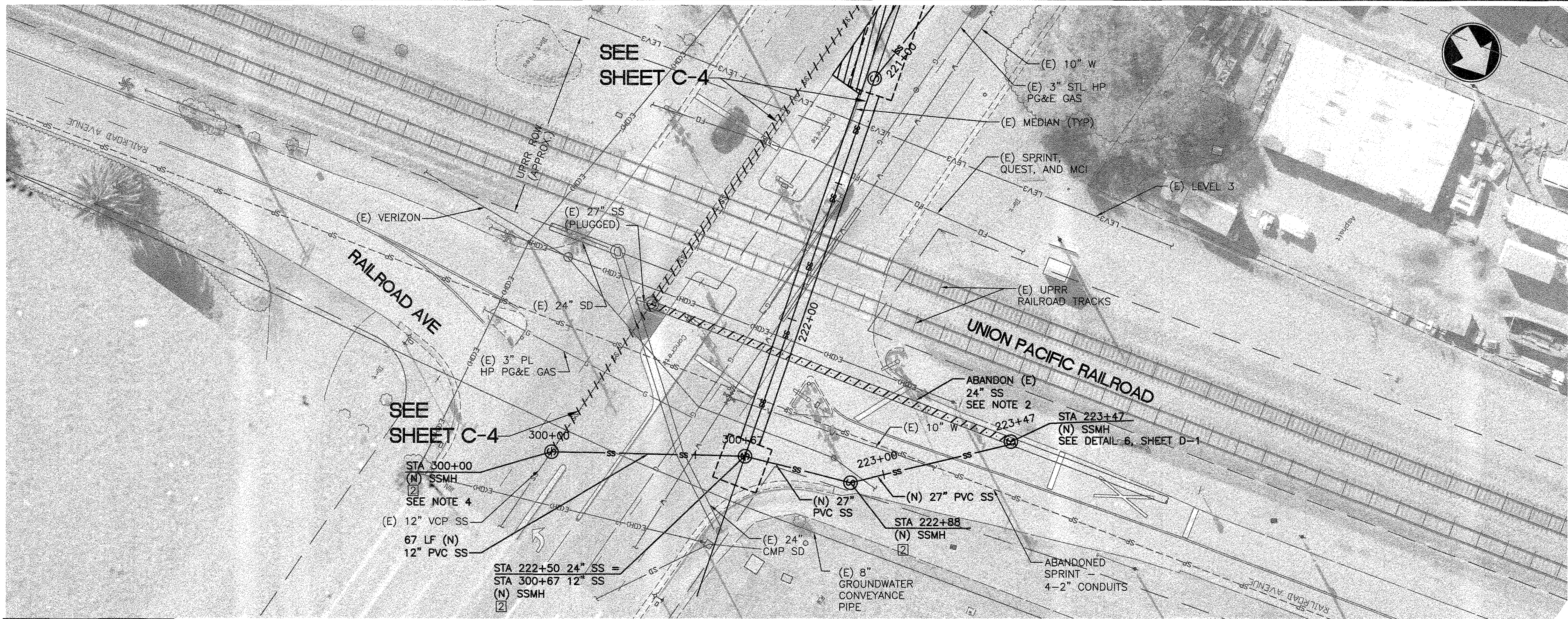
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AS-BUILT CORRECTIONS			
Revisions			
NO.	DESCRIPTION	DATE	BY
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PLAN AND PROFILE
STA 217+00 TO 222+50
TENNAANT AVENUE
SEWER MAIN PROJECT

FILE NUMBER: 302717
PRINT DATE: 6/5/2019
SHEET NUMBER: C-4
8 OF 19

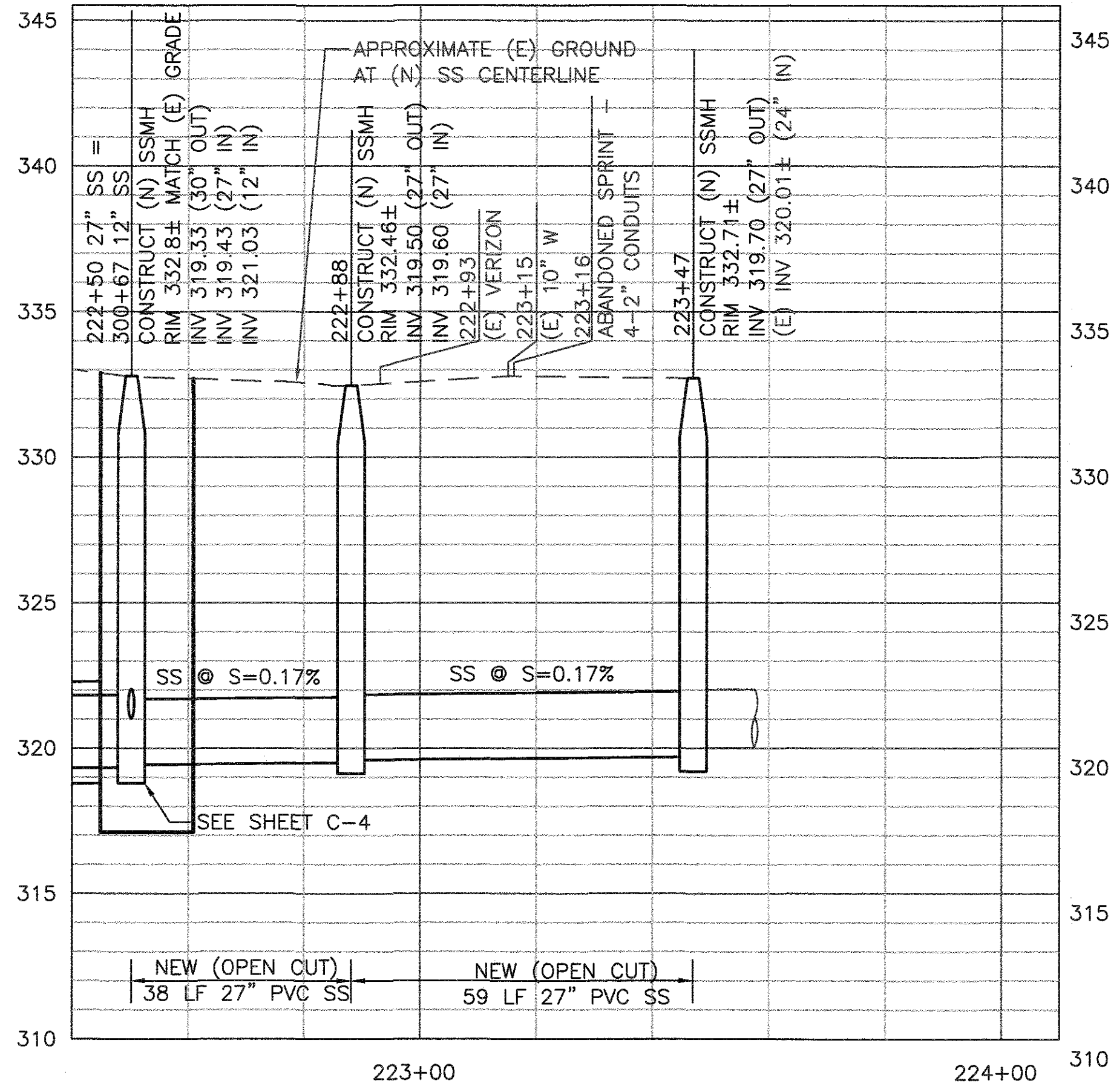


THIS PLAN WAS PREPARED FROM AVAILABLE RECORD INFORMATION AND PARTIAL TOPOGRAPHIC SURVEY DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS ON THE JOB SITE PRIOR TO CONSTRUCTION. SEE PROJECT NOTES 1, 2, 3 ON SHEET G-2.

- NOTES:**
- CONTRACTOR SHALL COMPLETE CONSTRUCTION OF (N) 27" SS PIPE BEFORE ABANDONING ANY SS PIPE OR SSMH.
 - COMPLETELY FILL AND ABANDON (E) SS WITH CELLULAR GROUT
 - CONTRACTOR SHALL REPLACE IN KIND ANY MEDIAN AND CURB DAMAGED DURING CONSTRUCTION TO THE NEAREST EXPANSION JOINT. REPLACED MEDIAN SHALL MATCH EXISTING MEDIAN SECTION.
 - CONTRACTOR SHALL VERIFY INVERT OF (E) 12" PIPE AT LOCATION OF (N) SSMH IN THE FIELD.

- 1 REMOVE AND REPLACE SSMH. SEE DETAIL S-4 AND S-5 ON SHEET D-3.
- 2 INSTALL NEW SSMH. SEE DETAILS S-4 AND S-5 ON SHEET D-3.
- 3 ABANDON (E) SSMH. SEE DETAIL 3 ON SHEET D-1.
- 4 NOT USED.
- 5 RECONNECT (E) LATERAL TO 27-INCH SS PER DETAIL 1, SHEET D-2.
- 6 EXTEND (E) LATERAL TO 27-INCH SS PER DETAIL 2, SHEET D-2.

PLAN



PROFILE SCALE: 1"=20' HORIZ 1"=4' VERT

WORK ACCEPTED: INSPECTOR:				DRAWN: AH DESIGN: AH				HOR: 1"=20' VERT: 1"=4'			
AS-BUILT CORRECTIONS				CHECKED: RF				APPROVED: DATE: 6/6/19			
NO. DESCRIPTION DATE BY				JOB NUMBER: 376483				CITY OF MORGAN HILL			
Revisions				CITY OF MORGAN HILL				CITY OF MORGAN HILL			
SCOTT CREER RCE 58879 EXP. 06/30/19				CITY OF MORGAN HILL				CITY OF MORGAN HILL			

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PLAN AND PROFILE
STA 222+50 TO 223+47
TENANT AVENUE
SEWER MAIN PROJECT

FILE NUMBER: 30217
PRINT DATE: 6/5/2019
SHEET NUMBER: C-5
9 OF 19

Plotted: Jun 04, 2019, 11:26am by VIL85908
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 Xref: ACAD-new Mtd4x36 X-TOPO-TENNANT X-UTIL-TENNANT X-UTIL-PROP-TENNANT X-PARCEL



1. THE CASING LENGTH SHALL EXTEND 12 INCHES MINIMUM INSIDE THE JACKING AND RECEIVING SHAFTS.
2. THE CASING DIAMETER AND WALL THICKNESS SHALL BE SELECTED AND VERIFIED BY THE CONTRACTOR AS PER SECTION 33 05 07.24.
3. JACKING AND RECEIVING SHAFTS ARE SHOWN ON THESE DRAWINGS AT A TYPICAL DIMENSION AND ONLY FOR PROJECT UNDERSTANDING. THE CONTRACTOR IS RESPONSIBLE FOR SHAFT SHAPE AND SIZE TO SUIT HIS MEANS AND METHODS INCLUDING INTENDED CASING PIPE SEGMENT LENGTH AND SITE CONSTRAINTS INCLUDING EXISTING UTILITIES AND TRAFFIC FLOW REQUIREMENTS. DRAWINGS DO NOT IMPLY THE AREA IS FREE OF CONFLICTING IMPROVEMENTS AND CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
4. THE CARRIER PIPE SHALL BE INSTALLED AND BACKFILL GROUTED WITHIN THE STEEL CASING IN ACCORDANCE WITH SECTION 33 05 07.23.
5. PRIOR TO INSTALLATION OF CASING, ABANDON EXISTING 24" SANITARY SEWER (ASSUMED VCP) AND BACKFILL WITH CELLULAR GROUT. SEE SHEET C-04 FOR ADDITIONAL INFORMATION. SEE SHEET C-7 REGARDING BYPASSING SEWER FLOWS.
6. SEE SHEET G-3 FOR INFORMATION ON GEOTECHNICAL BORINGS.
7. CONTRACTOR SHALL PERFORM PRECONSTRUCTION POTHOLE OF LEVEL 3 CONDUIT AND PROVIDE TOP ELEVATION OF CONDUIT AND SIZE OF CONDUIT TO ENGINEER FOR VERIFICATION. DATA SHALL BE PROVIDED TO ENGINEER A MINIMUM OF 6 WEEKS PRIOR TO ANY WORK ASSOCIATED WITH AUGER BORING, INCLUDING SHAFT EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND EXECUTING PERMITS AND INSURANCE AGREEMENTS REQUIRED BY UPRR FOR WORK.
8. AUGER BORING IS FACE OF SHAFT TO FACE OF SHAFT DISTANCE. CARRIER PIPE LENGTH IS MANHOLE TO MANHOLE. STEEL CASING LENGTH IS EQUAL TO THE SUM OF THE AUGER BORING LENGTH AND THE LENGTHS IDENTIFIED IN NOTE 1.



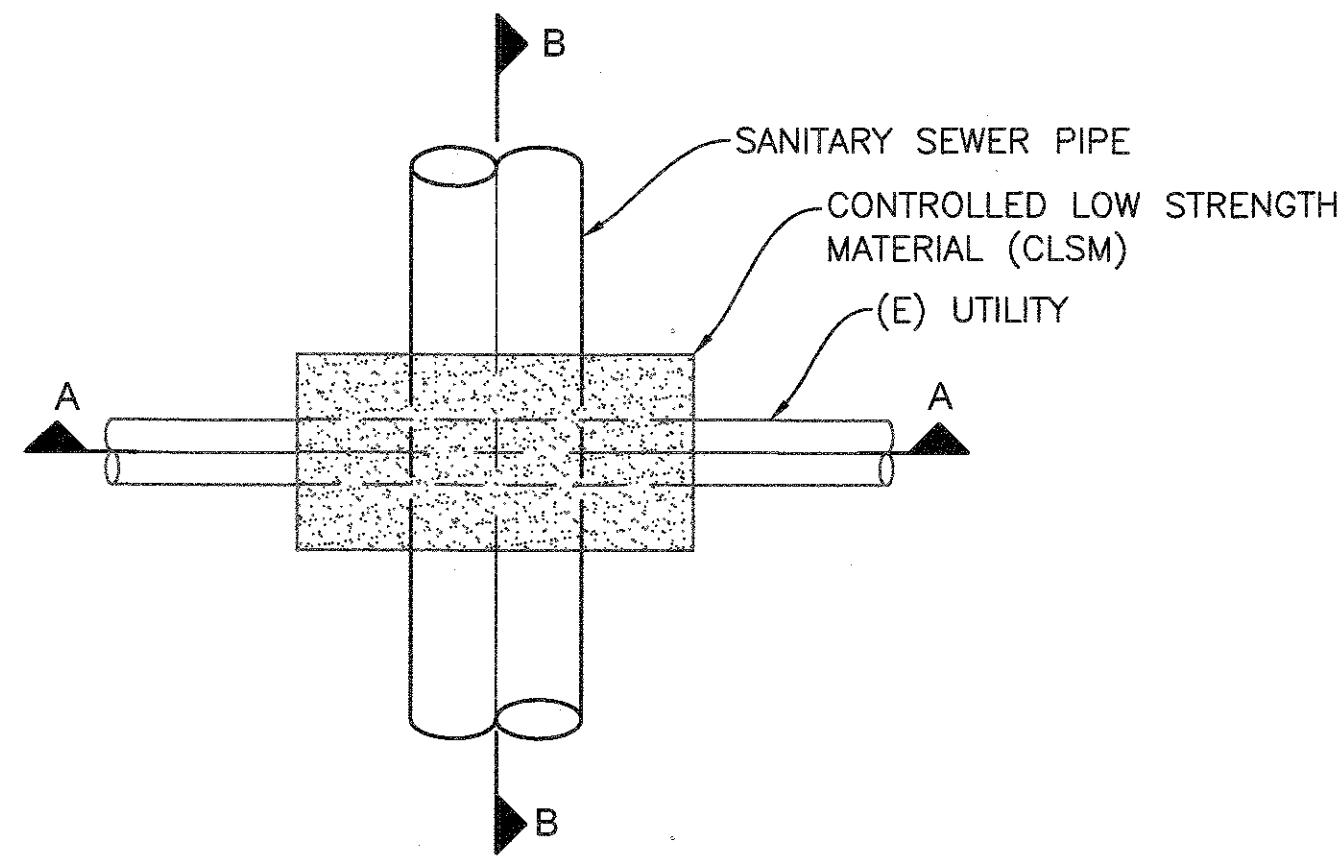
CITY OF MORGAN HILL

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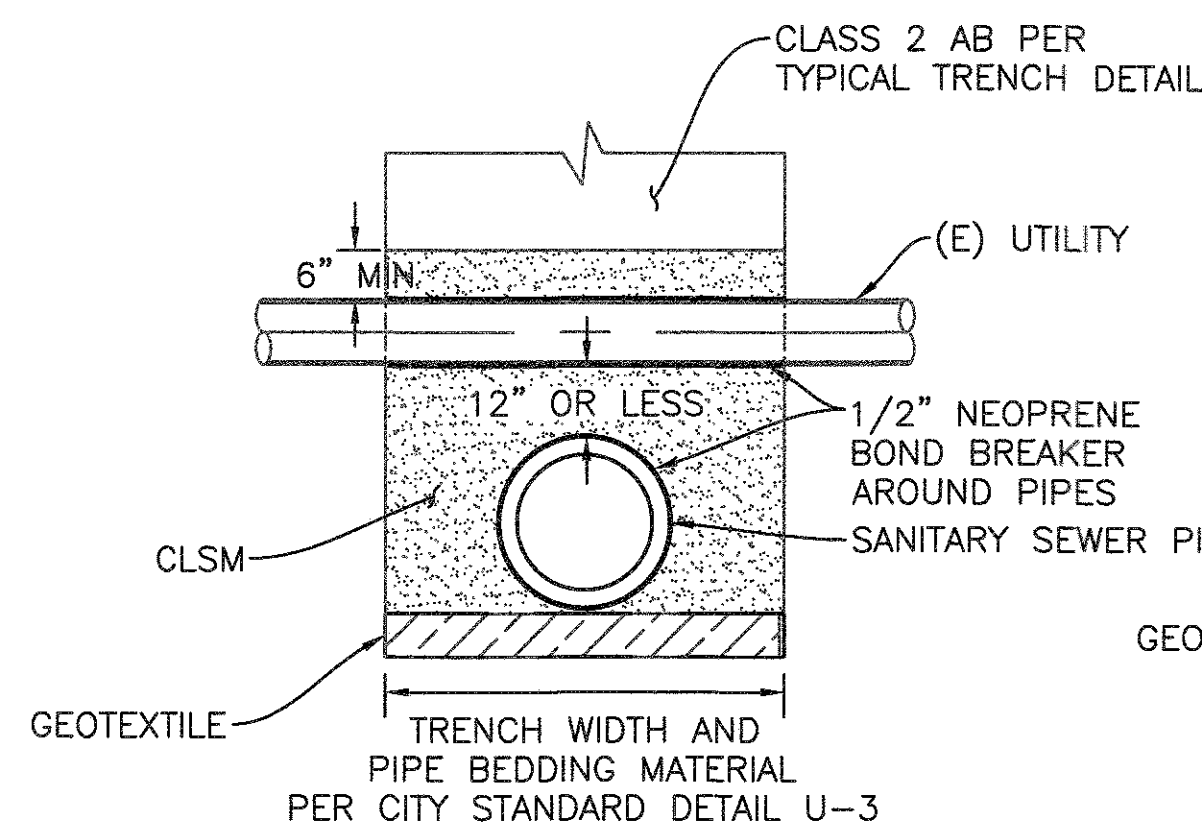
2077 GATEWAY PLACE
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FILE NUMBER:	302T17
PRINT DATE:	6/5/2019
SHEET NUMBER:	C-6 10 OF 19

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Title: 1/200 - new 10/26/19

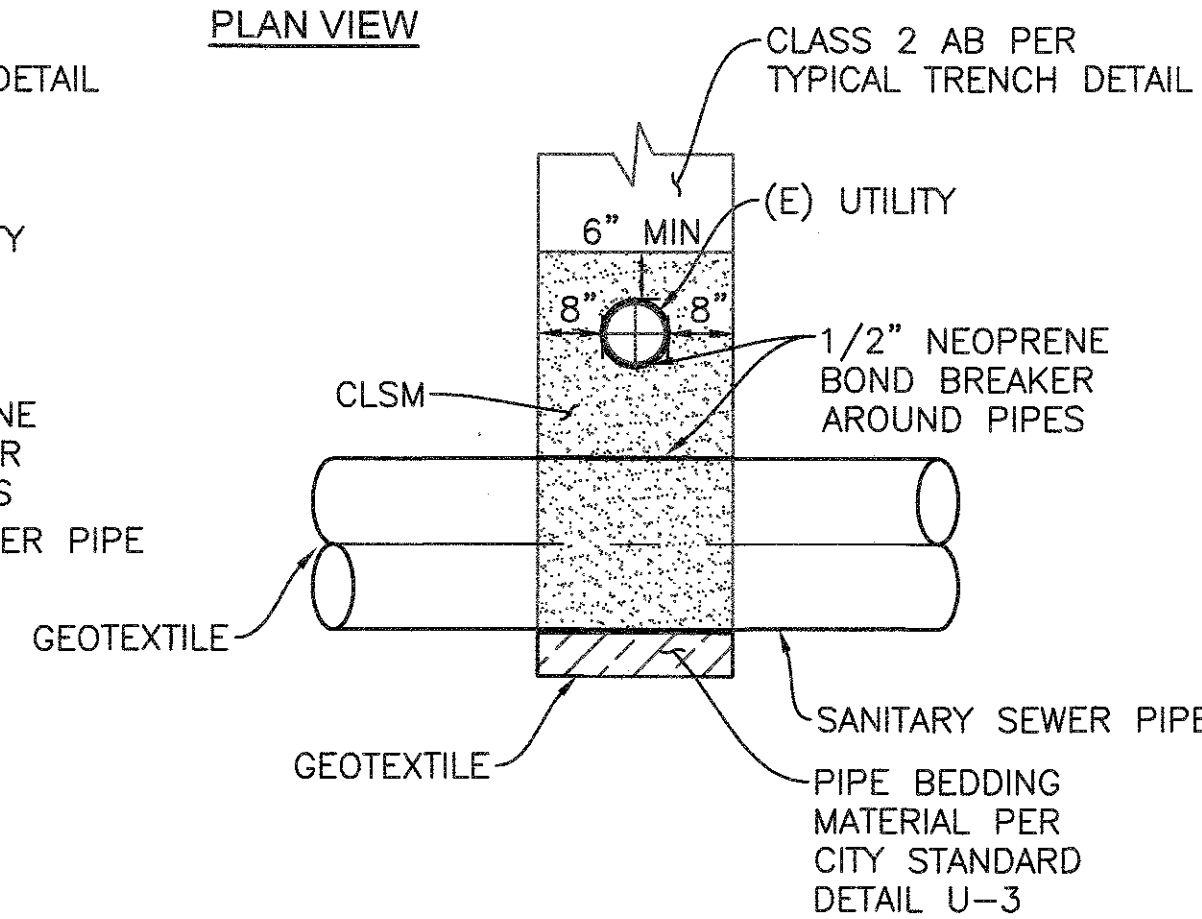


PLAN VIEW



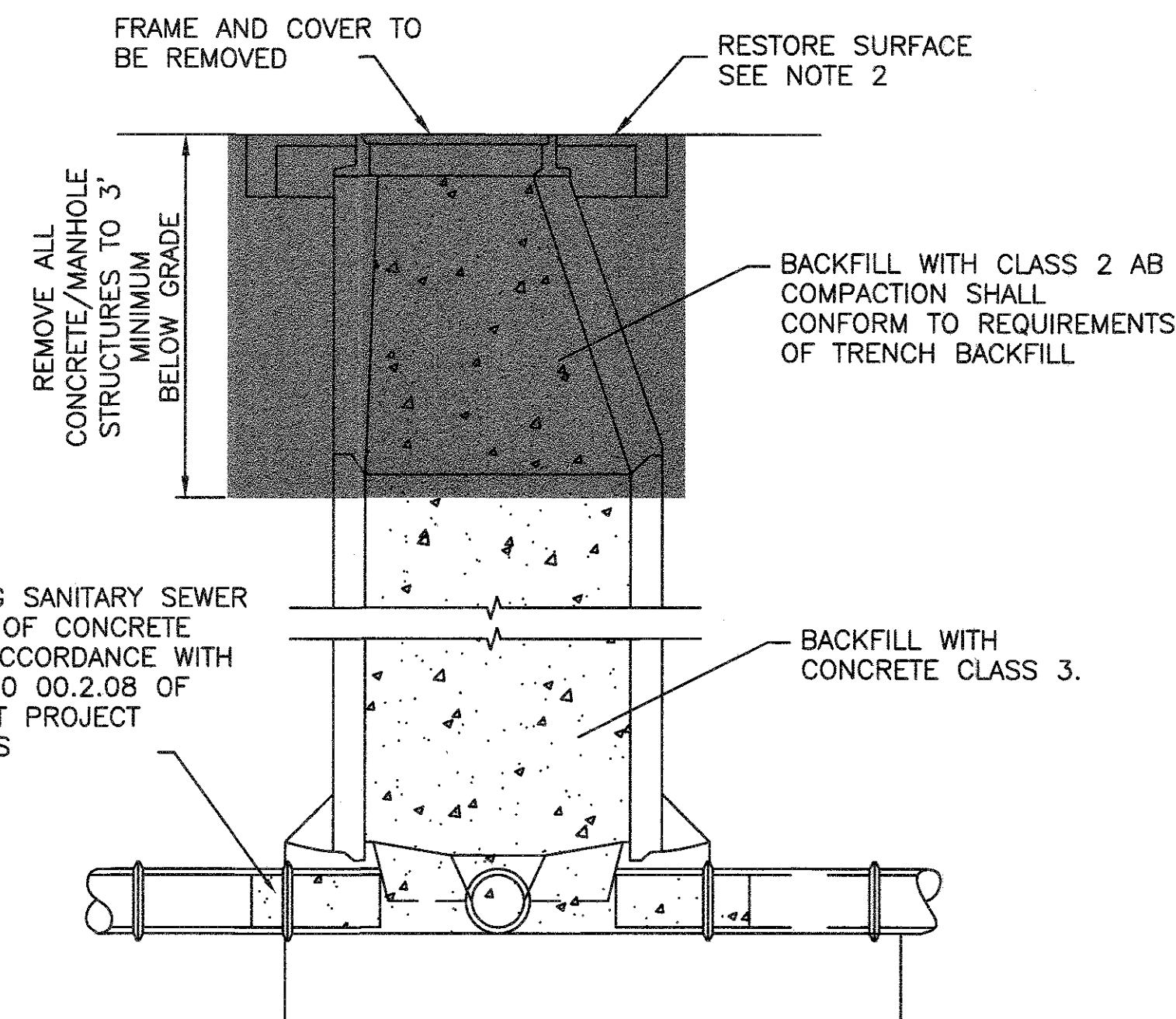
SECTION A-A

- NOTES:
1. REQUIRED WHERE VERTICAL SEPARATION BETWEEN UTILITIES IS 12 INCHES OR LESS.



SECTION B-B

1 (E) UTILITY SUPPORT DETAIL
D-1 N.T.S.

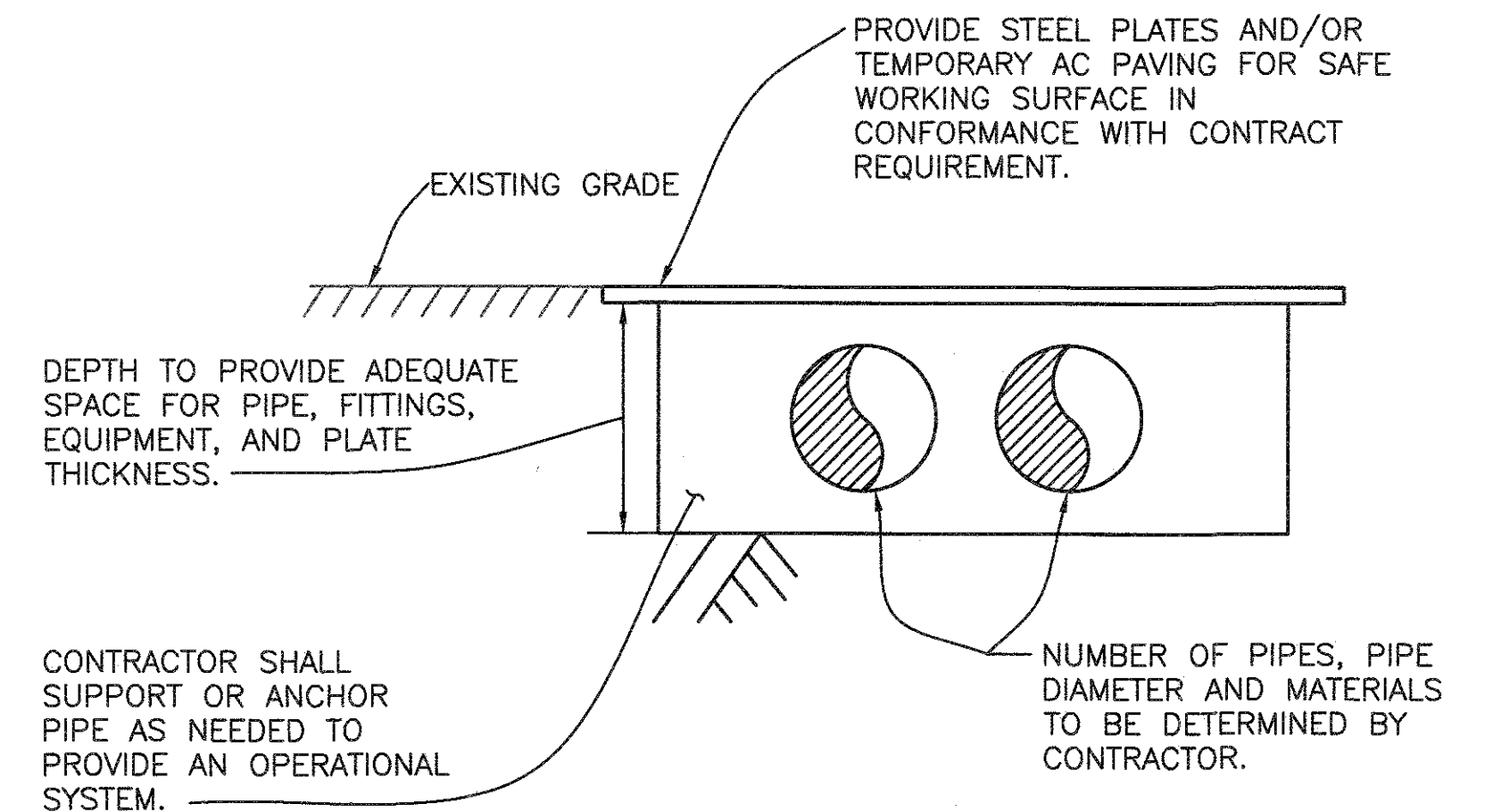


PLUG EXISTING SANITARY SEWER WITH 1 FOOT OF CONCRETE CLASS 3 IN ACCORDANCE WITH SECTION 03 30 00.2.08 OF THE CONTRACT PROJECT SPECIFICATIONS

THE EXISTING MANHOLE TO BE ABANDONED IN PLACE SHALL BE AS SHOWN ON PLANS AND IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS AND STANDARD SPECIFICATIONS:

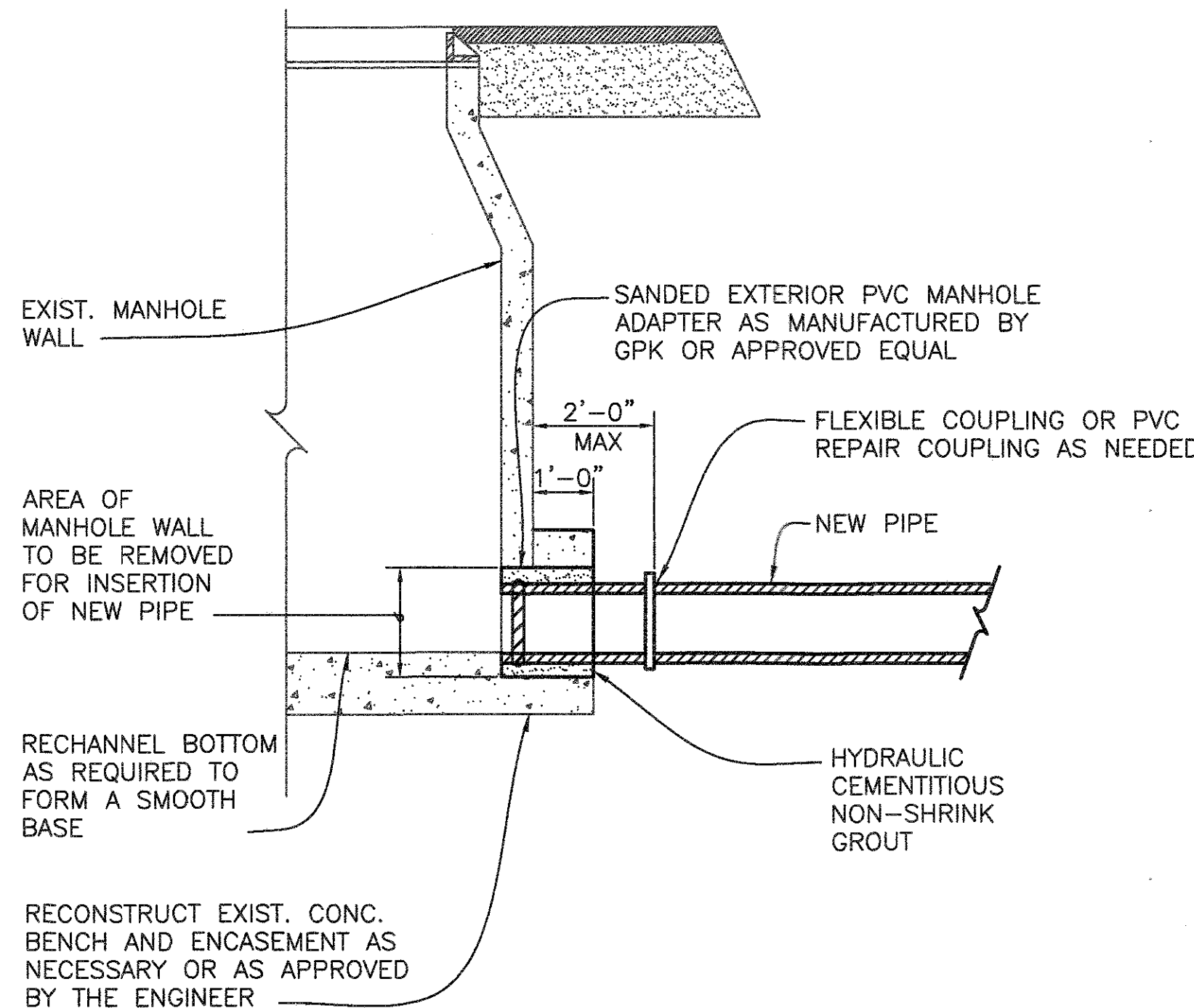
1. REMOVE AND SALVAGE ALL SUITABLE FRAMES AND LIDS (TO BE DETERMINED BY THE CITY) AND DELIVER TO THE CITY'S YARD. UNSUITABLE FRAMES AND LIDS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH SECTION 7-1.13 OF THE STANDARD SPECIFICATIONS.
2. RESTORE THE SURFACE TO A CONDITION TO MATCH EXISTING SIDEWALK OR ROADWAY SECTION.

3 ABANDONMENT OF EXISTING SANITARY SEWER MANHOLE
D-1 N.T.S.

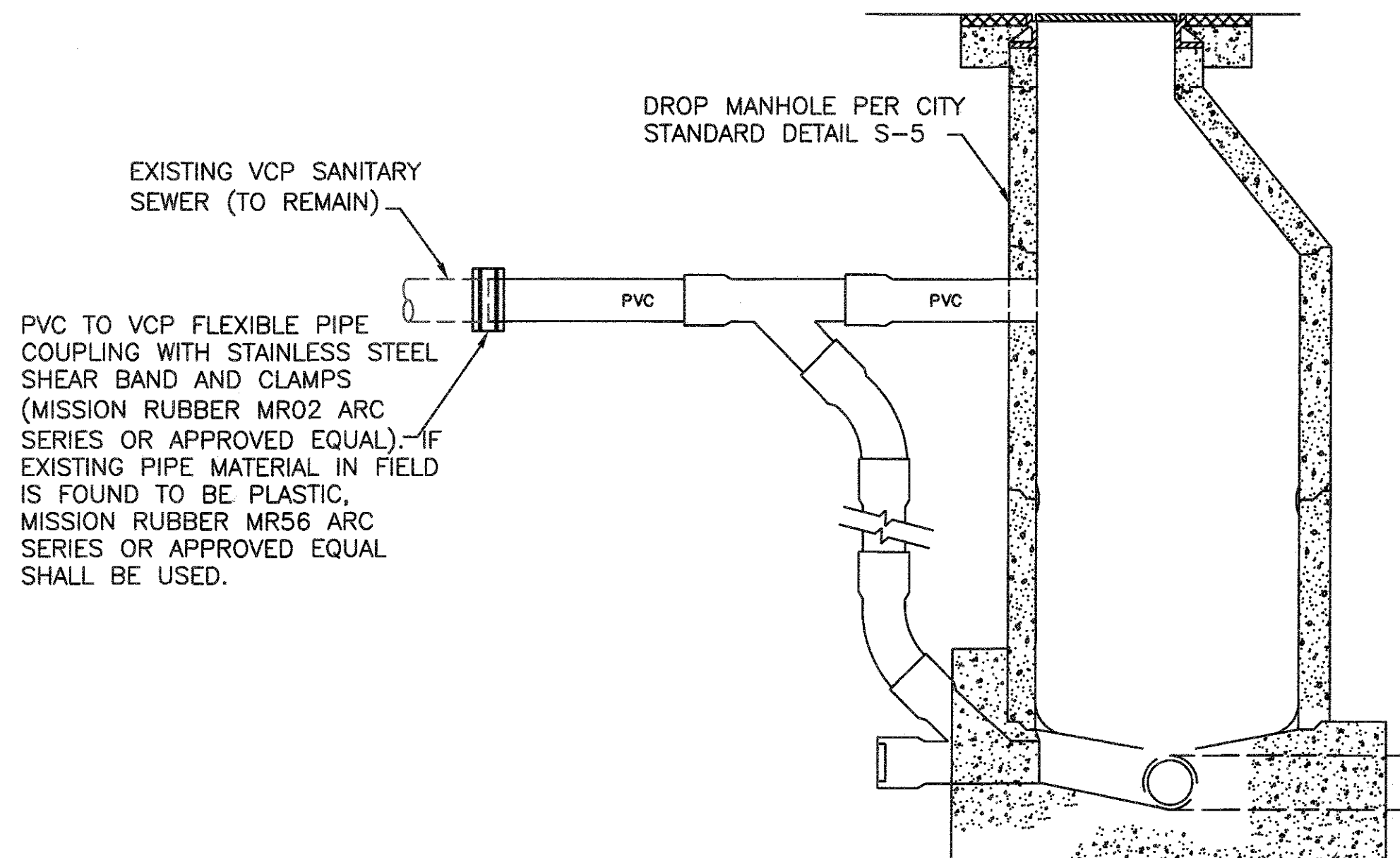


- NOTES:
1. UPON COMPLETION OF BYPASS OPERATIONS; CONTRACTOR SHALL REPLACE ROADWAY STRUCTURAL SECTION IN CONFORMANCE WITH CITY STANDARD DETAIL U-3.

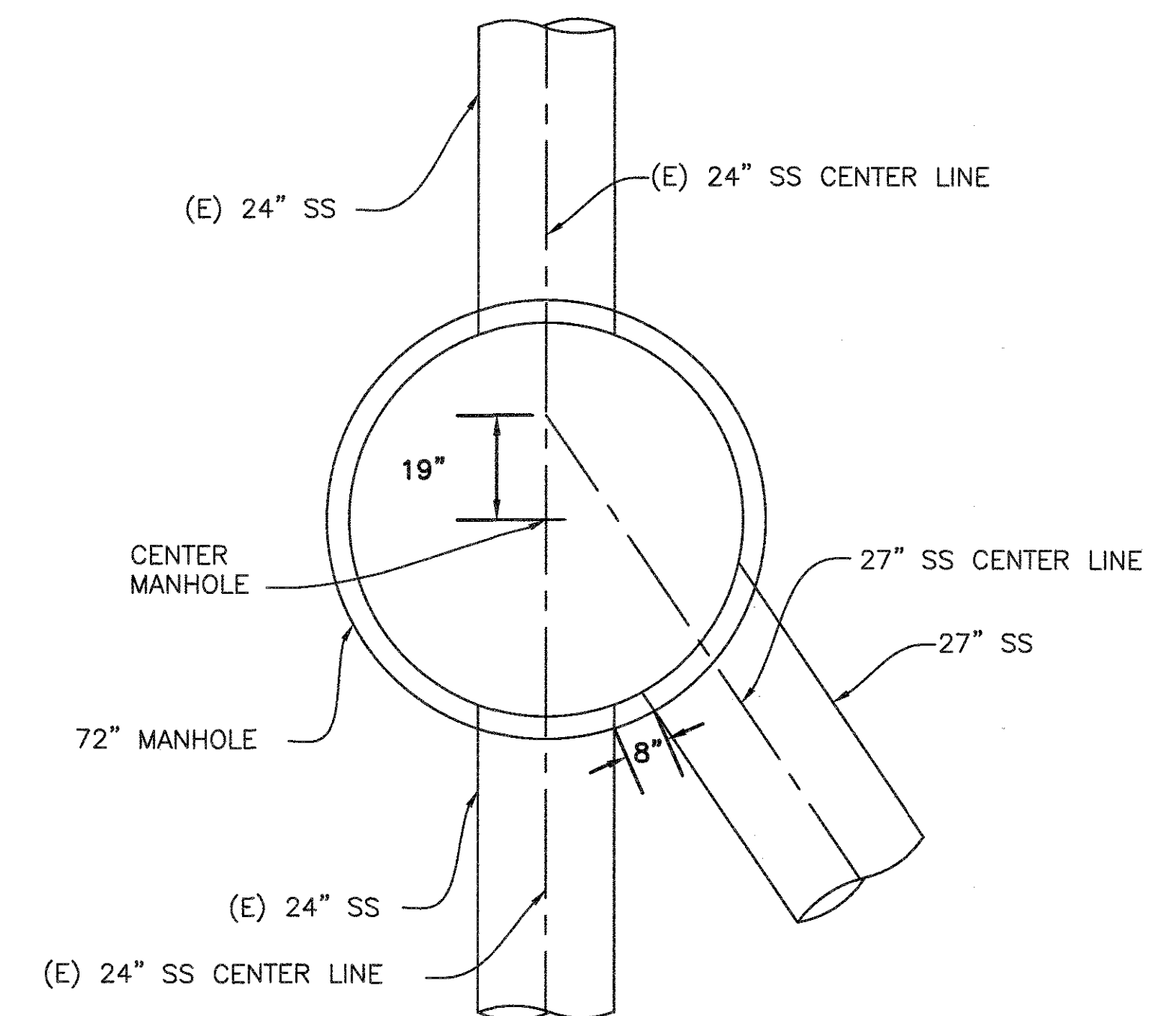
5 TEMPORARY BYPASS PIPING TRENCH DETAIL
D-1 N.T.S.



2 CONNECTION TO EXISTING MANHOLE DETAIL
D-1 N.T.S.



4 (E) PIPE CONNECTION TO DROP MANHOLE
D-1 N.T.S.



6 72\"/>

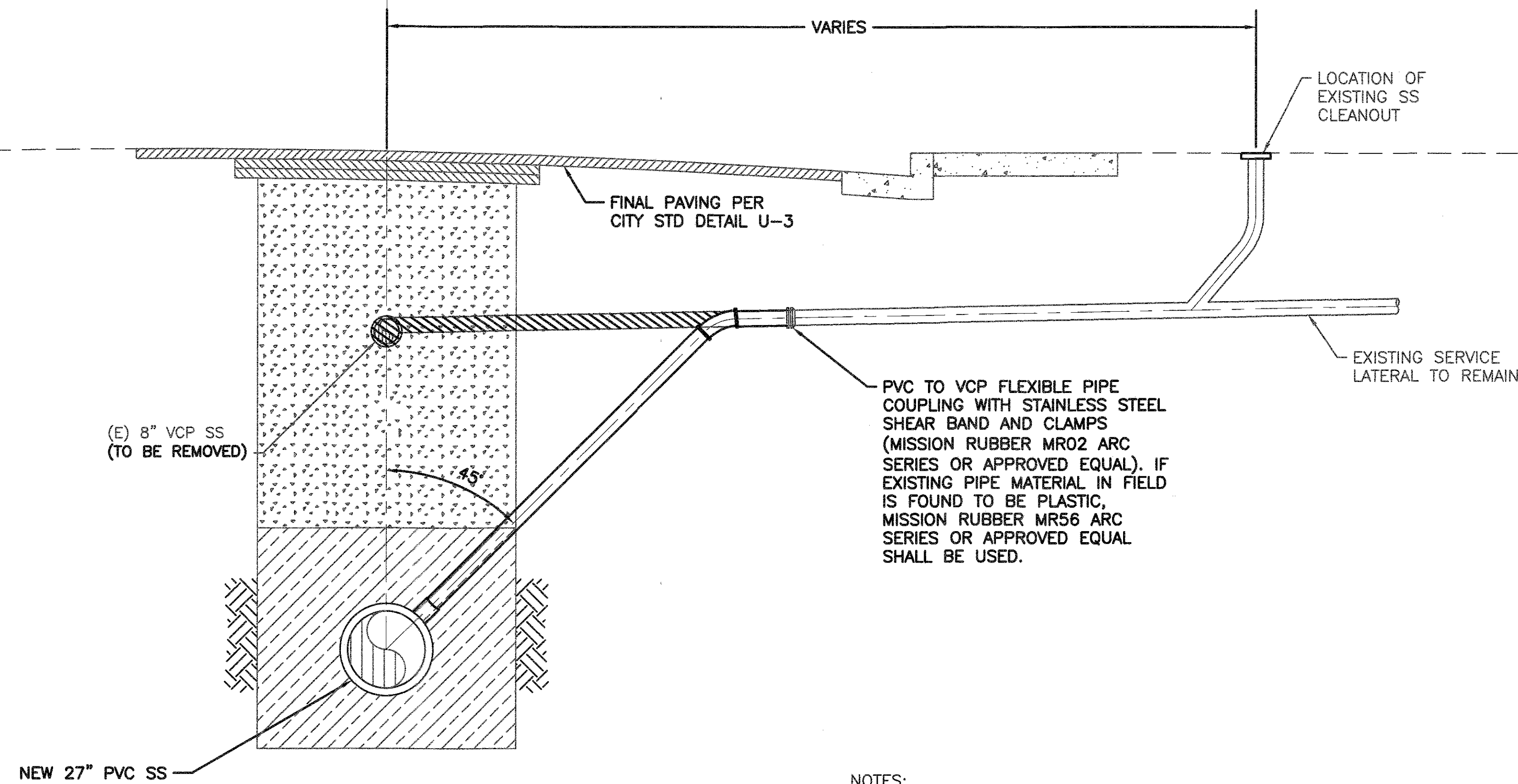
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Revisions				CITY OF MORGAN HILL	100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282	

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DETAILS
TENNAANT AVENUE
SEWER MAIN PROJECT

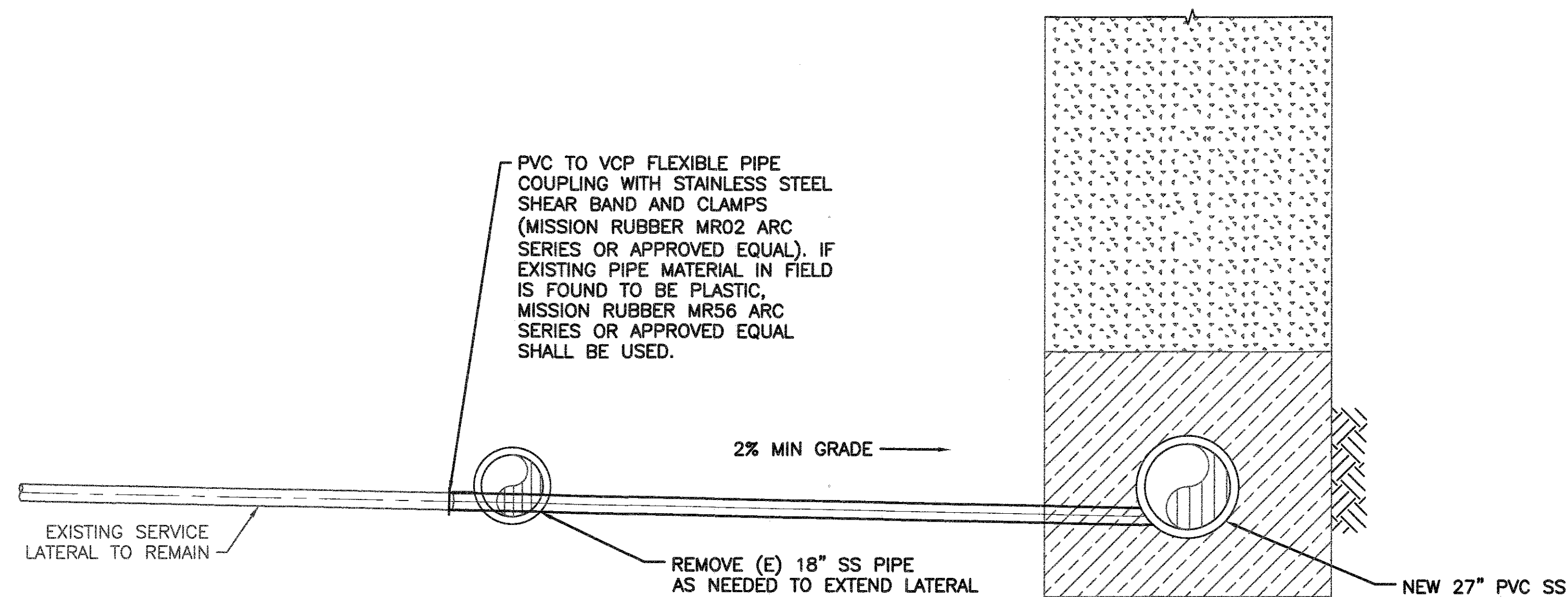
FILE NUMBER: 302717
PRINT DATE: 6/5/2019
SHEET NUMBER: D-1
12 OF 19



- NOTES:
1. FOR TRENCH INFORMATION NOT SHOWN, SEE CITY STD DETAIL U-3.
 2. FOR OTHER DETAILS NOT SHOWN, SEE CITY STD DETAILS S-2 AND S-3.

1
D-2 TYPICAL SECTION VIEW OF ALTERNATE SS LATERAL INSTALLATION

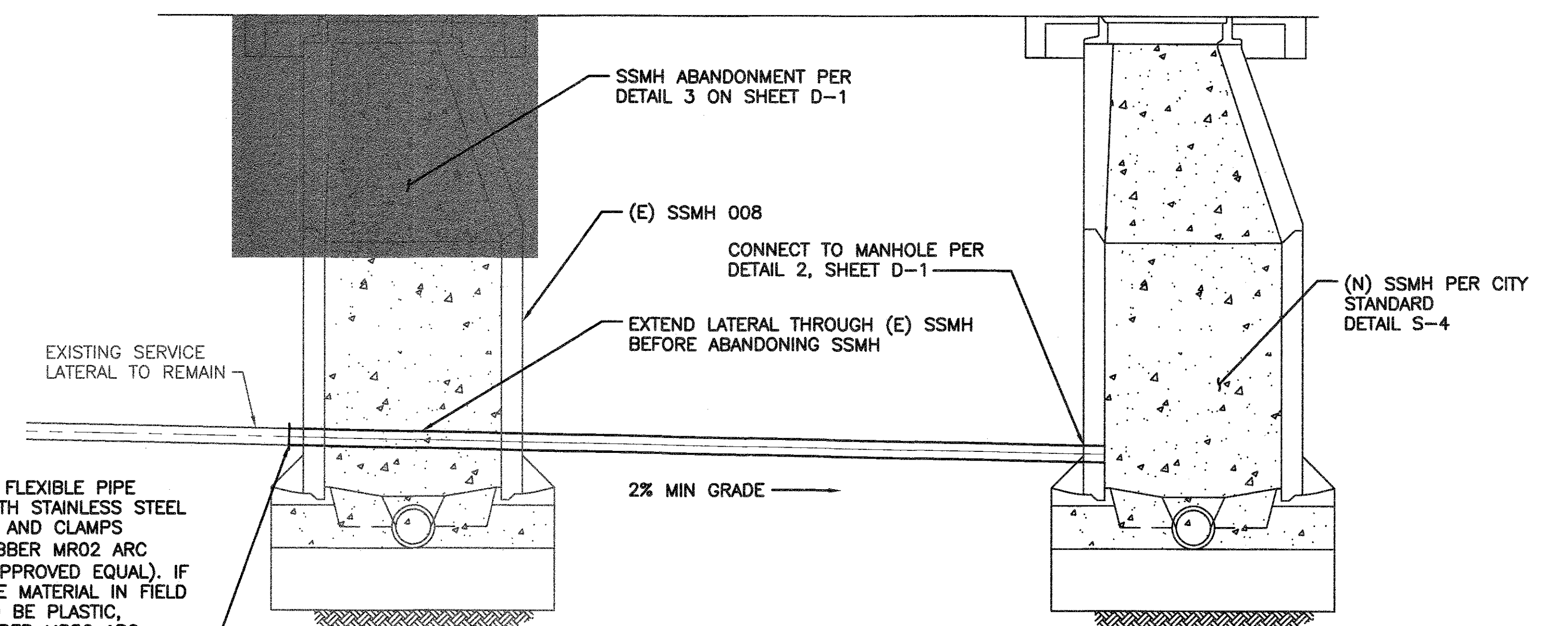
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- NOTES:
1. FOR TRENCH INFORMATION NOT SHOWN, SEE CITY STD DETAIL U-3.
 2. FOR OTHER DETAILS NOT SHOWN, SEE CITY STD DETAILS S-2 AND S-3.

2
D-2 TYPICAL SECTION VIEW OF SS LATERAL EXTENSION

N.T.S.



- NOTES:
1. FOR TRENCH INFORMATION NOT SHOWN, SEE CITY STD DETAIL U-3.
 2. FOR OTHER DETAILS NOT SHOWN, SEE CITY STD DETAILS S-2 AND S-3.

3
D-2 SS LATERAL EXTENSION THROUGH SSMH 008

N.T.S.

Plotted: Jun 04, 2019, 11:30am by VLB5908
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 Time: 11:30am

WORK ACCEPTED: INSPECTOR:				DRAWN: LV		DESIGN: AH		HOR: NTS	
AS-BUILT CORRECTIONS				CHECKED: RF		VERT: NTS		DATE: 6/4/19	
BY: DATE:				APPROVED: [Signature]		JOB NUMBER: 376483		CITY OF MORGAN HILL	
Revisions				CITY OF MORGAN HILL		100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282		MOTT MACDONALD	

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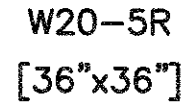
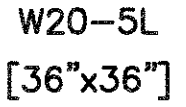
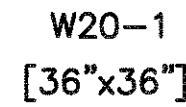
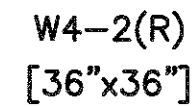
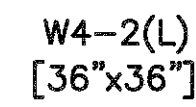
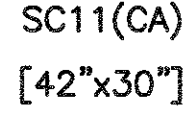
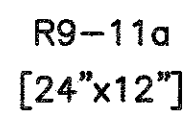
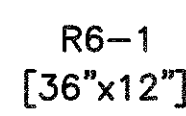
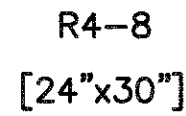
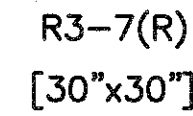
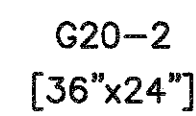
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DETAILS
 TENNANT AVENUE
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FILE NUMBER: 302117
 PRINT DATE: 6/5/2019
 SHEET NUMBER: D-2
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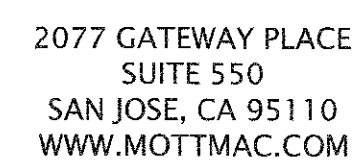
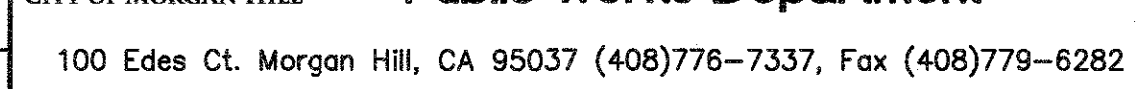
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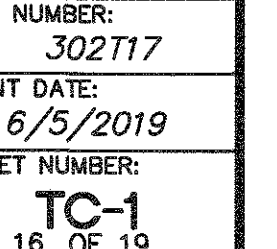
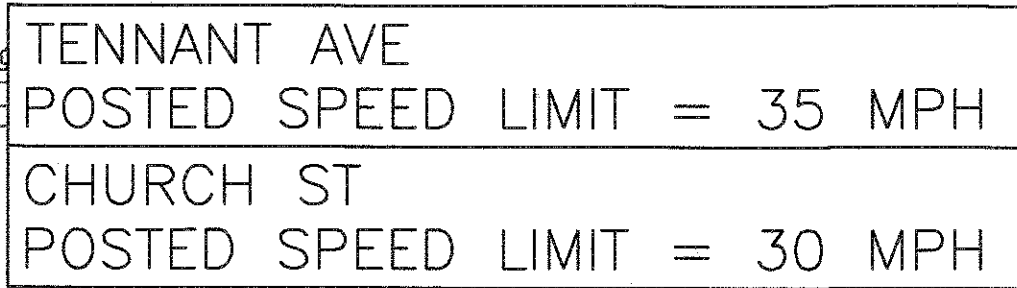
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TC-0
15 OF 19

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Public Works Department

M **M**
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TRAFFIC CONTROL PLAN
TENNANT AVENUE
SEWER MAIN PROJECT

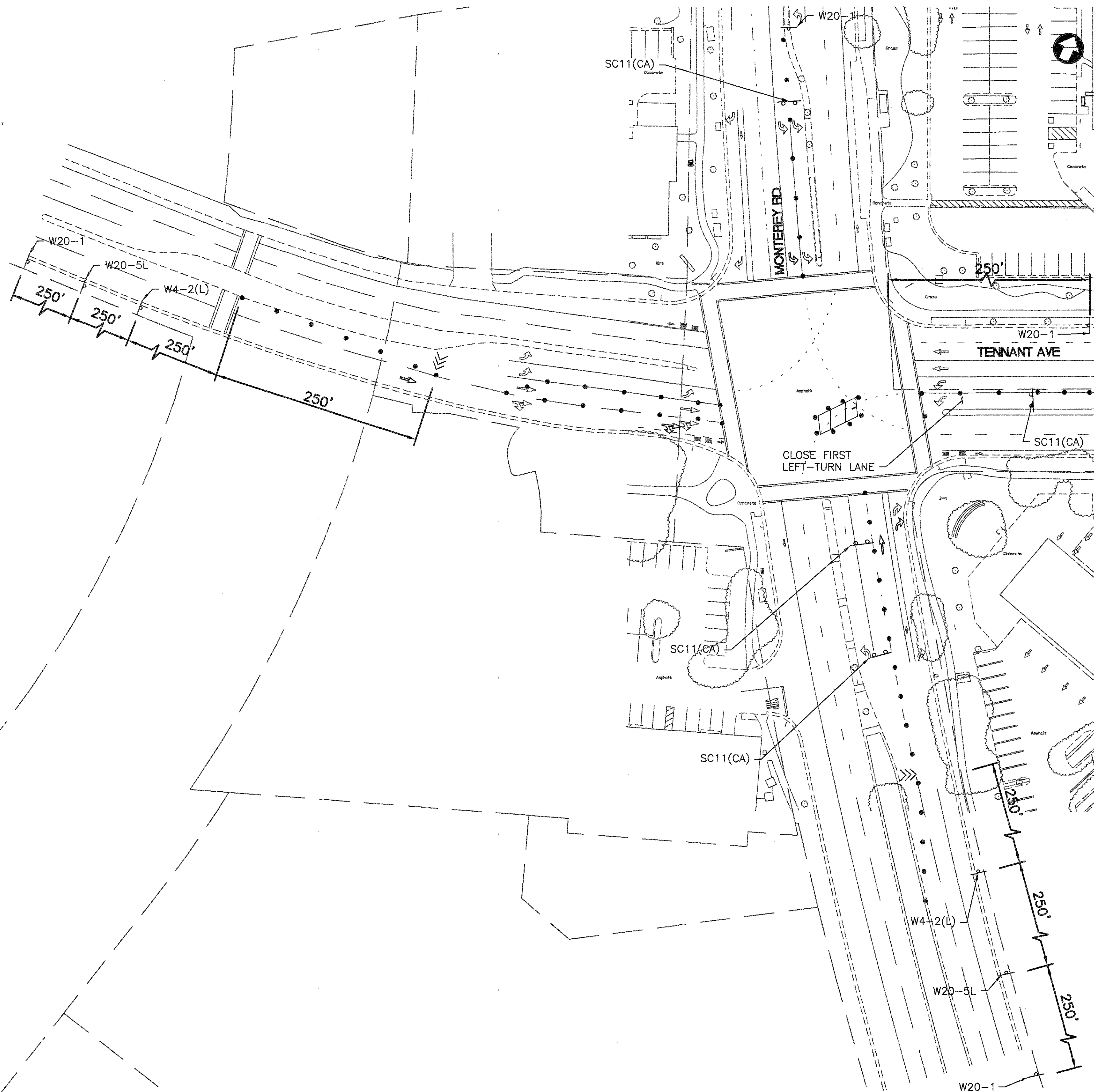
NUMBER:
302T17

DATE:
6/5/2019

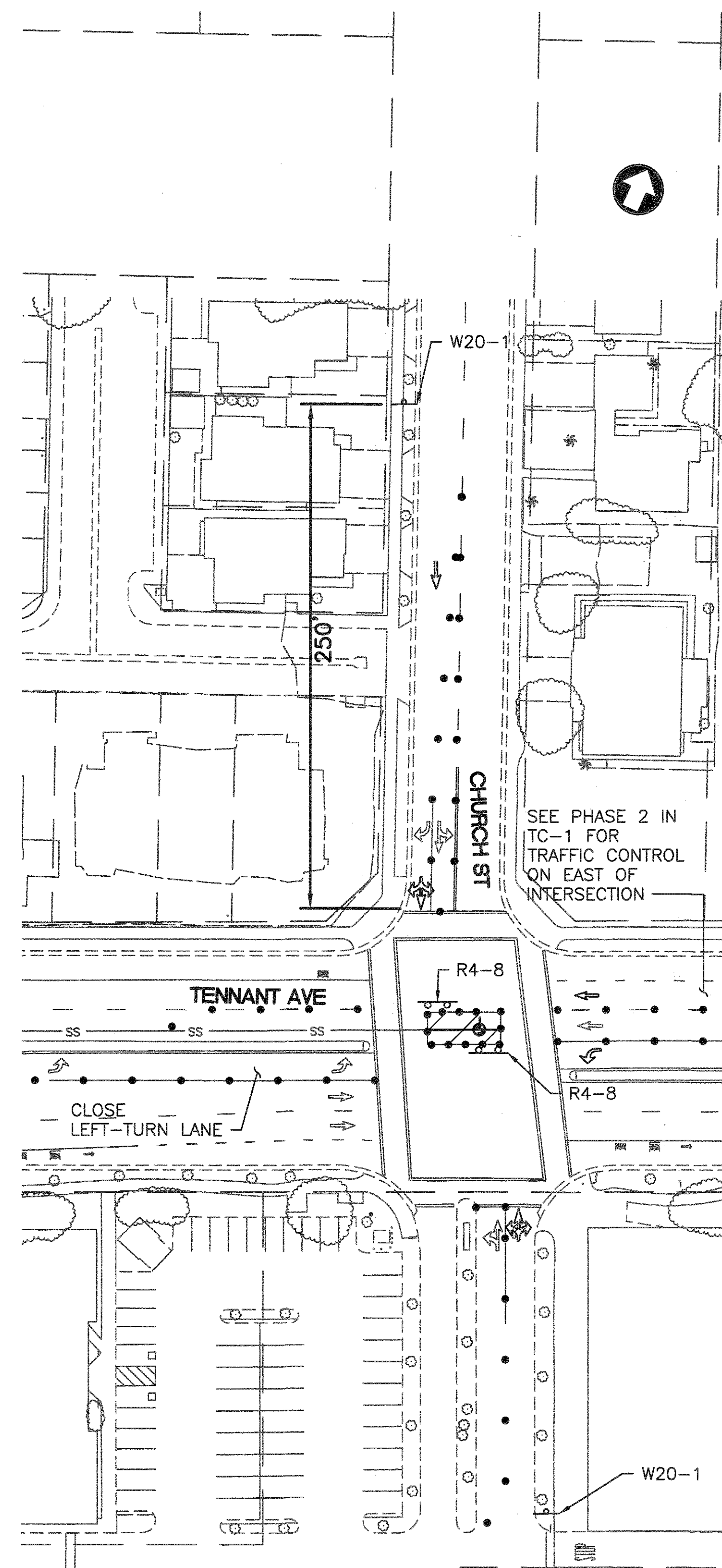
ET NUMBER:
TC-1

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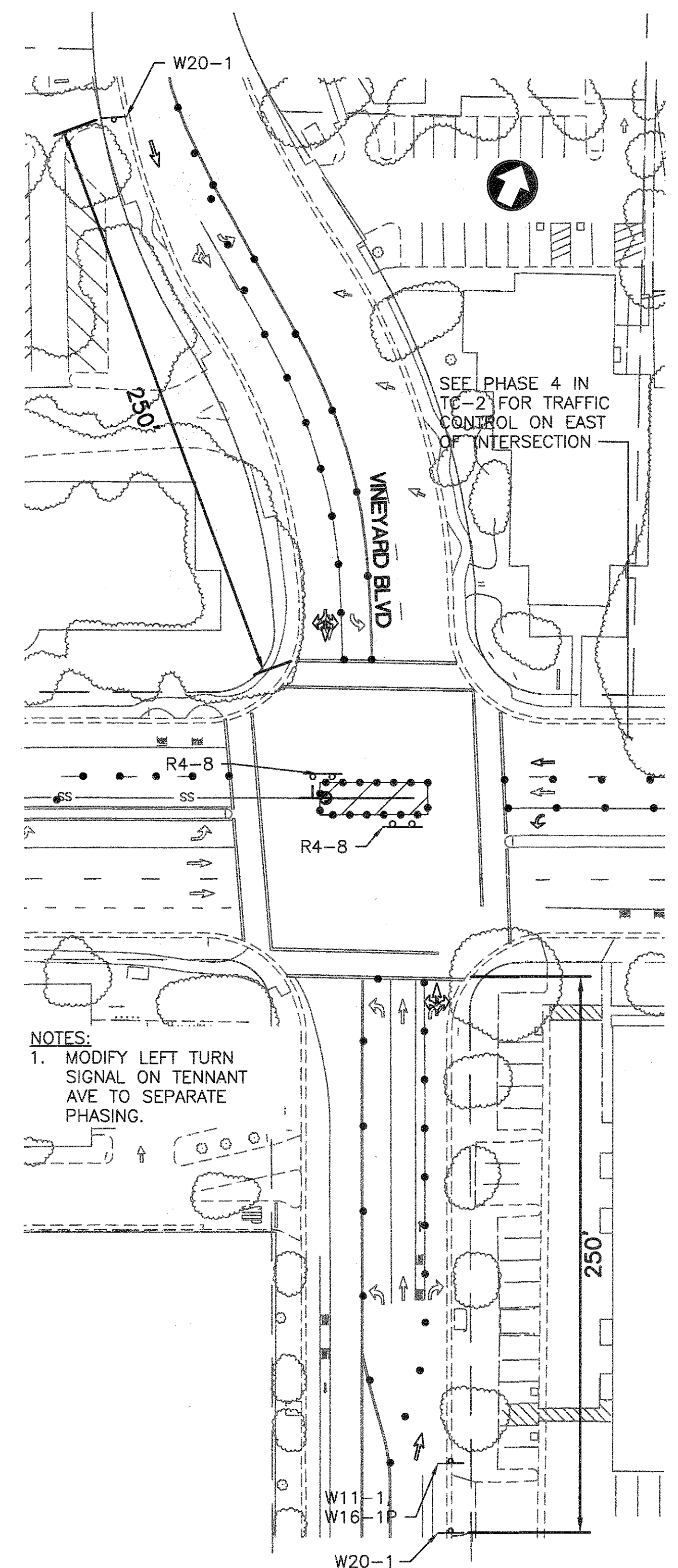
Plotted: Jun 04, 2019, 11:32am by VLB5908
File: C:\pwworking\mhm\water_wastewater\302717\TC-4.dwg SYS: VISRETAH=1, PLSI=1, LSCALE=1
Xref: 1: A300-PROP-10/24/18 1: X-1000-TENNANT 1: X-1000-TENNANT 1: X-1000-TENNANT 1: X-1000-TENNANT



DETAIL A
SCALE: 1"=40'



DETAIL B
SCALE: 1"=40'



DETAIL C
SCALE: 1"=40'

TENNANT AVE
POSTED SPEED LIMIT = 35 MPH
CHURCH ST
POSTED SPEED LIMIT = 30 MPH
VINEYARD BLVD
POSTED SPEED LIMIT = 35 MPH
MONTEREY BLVD
POSTED SPEED LIMIT = 35 MPH

					WORK ACCEPTED:	INSPECTOR:	DRAWN: MG	DESIGN: TC	HOR: 1"=40'
					AS-BUILT CORRECTIONS		CHECKED: -		VERT: 1"=4'
NO.	DESCRIPTION		DATE	BY	BY:	DATE:	APPROVED: <i>SC</i>	DATE: 6/6/19	JOB NUMBER: 376483
Revisions							CITY/ENGR RCE SCOTT CREER RCE 58879 EXP. 06/30/19		



City of Morgan Hill
Public Works Department

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TRAFFIC CONTROL PLAN
TENNANT AVENUE
SEWER MAIN PROJECT



FILE NUMBER: 302717
PRINT DATE: 6/5/2019
SHEET NUMBER: TC-4
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